THE ENCYCLOPÆDIA OF THE GAS TRADE.

Welsbach

GAS APPLIANCES

EDITION No. 312

MANTLE SECTION

1915-16.

EDITION No. 312

The WELSBACH LIGHT Co Ltd
WELSBACH HOUSE
KINGS CROSS LONDON
TELEGRAMS: "WELSBACH, LONDON." TELEPHONE: 2410 NORTH (4 LINES)

THE ENCYCLOPEDIA of the GAS TRADE

WELSBACH

MANTLE SECTION. SEASON 1915-16.

Copyright.

EDITION No. 312.

HEAD OFFICES AND SHOWROOMS OF

THE WELSBACH LIGHT COMPANY, Limited,

WELSBACH HOUSE, 344-354, GRAY'S INN ROAD,
KING'S CROSS, LONDON, W.C.

Telegrams and Cables: "Welsbach, Kincross, London."
Codes: A.B.C. 5th Edition and Western Union.

Telephone Nos.: North 2410, 2411, 2412, 2413
(Private Branch Exchange).

Wholesale Branches at—

BIRMINGHAM, 50, Dudley Street.
BRISTOL, 22, Christmas Street.
HULL, 52, Brook Street.
LEEDS, 25, Aire Street.
MANCHESTER, 75, Spear Street.
STOKE-ON-TRENT, Glebe Bldgs., Glebe St.
DUBLIN, 197, Great Brunswick Street.

WELSBACH

A VIEW OF ONE OF THE SHOWROOMS

At the Head Offices of THE WELSBACH LIGHT COMPANY, Ltd.,

WELSBACH HOUSE, 344-354, Gray's Inn Road, King's Cross, LONDON, W.C.

SPECIAL NOTICE TO THE TRADE.

A cordial invitation is extended to the trade to visit our Showrooms or send their customers for the purpose of selecting any of our specialities.

It is desirable that the trade when sending their customers should provide them with a written authority, and advise us by post beforehand.

INVITATION BOOKS FOR THIS PURPOSE WILL BE SENT POST FREE TO THE TRADE UPON APPLICATION.

Showroom Hours: 9 a.m. to 6 p.m.
Saturdays, 1 p.m.

THE WELSBACH LIGHT CO., Ltd.

WELSBACH

SPECIAL NOTICE.

COPYRIGHT.

THE PUBLIC is specially warned against Mantles offered as **"WELSBACH"** at prices below the advertised retail prices. Every Genuine Welsbach or Kern Burner bears our Registered Trade Mark "AUR" stamped upon the head. Burners stamped "Welsbach System" or "Auer System" are IMITATIONS, and proceedings will be instituted against any person selling these as "Welsbach" Burners.

Electros of any illustrations contained in this Catalogue can be loaned from us if desired for customers' Price Lists; a nominal charge is made for each electro, and full credit given if returned within six months in good condition.

1. **When ordering, particular care should be taken to QUOTE CORRECT NUMBERS, as per list.**

2. **It is requested that in all communications and orders, the names or numbers of the various articles may be quoted, as set out under each illustration; mistakes and delays will thus be avoided.**

3. **All goods are sent—on firm order—at consignee's expense and risk.**

4. **Customers are respectfully notified that the Company cannot take back or make any allowance for goods returned unless such returns have been previously notified to, and sanctioned by the Company.**

The following special publications will be sent upon application:

GAS RING AND GRILLER LEAFLET.

GAS FITTINGS CATALOGUE.

RADIATOR CATALOGUE.

PUBLIC LIGHTING CATALOGUE.

PHAROS-WELSBACH HIGH-PRESSURE CATALOGUE.

ID 90-B62168 TCF

WELSBACH

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Conditions of Sale.

1. All previous Lists and Quotations are hereby cancelled.
2. All prices are subject to alteration without notice.
3. All Contracts are subject to, and excluding liability for, causes beyond our control.
4. We pay Carriage on £5 lots at a time.
5. All Goods are packed here in the most careful manner and consigned at Railway Company's risk, and according to Railway Classification, unless otherwise stated when ordering.
6. Purchaser takes all risk of and all responsibility for damage, breakage and/or pilferage of goods in transit by land and/or water from time of delivery to Carriers by Works, whether situate abroad or in Great Britain.
7. As we accept no responsibility for damage to goods in transit, all Goods should be signed for "unexamined," and in the event of damage any claim must be made by Consignee upon the Carriers within 24 hours after receipt of Goods. (Where damage occurs to goods sent CARRIAGE PAID, notice should be sent to us immediately as in such cases WE make the claim.)
8. Where Small Parcels are damaged in the Post, the attention of the Postal Authorities must be called to same, and the damaged packages kept aside for inspection.
9. For home trade, all Goods sent per water from London are Insured against sea loss; Insurance is charged on Invoice.
10. Cases (where charged) are credited in full if returned as carriage-paid Empties within 14 days with straw, two-thirds only allowed if returned without straw. Half-price allowed if kept.
11. Orders of which Mantles form a part are charged by the Railways as 5th Class (the highest) Rate; unless instructed to the contrary, we use our discretion as to forwarding entire order at 5th Class Rate, or sending Mantles separately.
12. All orders are executed as promptly as possible, and no claims on account of delay in delivery will be entertained.
13. All Accounts are made up to the end of each month, and are due for payment on the 15th of the following month less 2½ per cent. discount.
14. Specially arranged Journey Accounts are net and must be remitted direct after the expiration of three months from Invoice date, provided they are not collected in the meantime.
15. All Cheques, Postal Orders, etc., should be crossed "Lloyds Bank, Ltd., Account THE WELSBACH LIGHT Co., Ltd.," no responsibility being taken for remittances lost in transit.

EXPORT.

16. Customers must not Export the Company's Mantles TO AUSTRALIA OR NEW ZEALAND.
17. Goods for Export are delivered free Dock Depôts, London, NOT F.O.B.
18. Cases are lined with Pitch paper, but can also be had lined Tin at lowest prices.
19. Goods shipped from London are always packed here by experienced men, Cases being charged at lowest prices.

SPECIAL QUOTATIONS ARE GIVEN FOR LARGE QUANTITIES.

WELSBACH

INVERTED GAS MANTLES.

BRITISH "AUR" MADE

BRITISH "AUR" MADE

UNIVERSAL FITTING.

For all Standard Types of Inverted Burners.

W**7000** (Type F.)
W**7306** (Type FB.)
For Bray Universal 3 ft. Burner.

MADE FROM SELECTED RAMIE THREAD.
HEAVILY IMPREGNATED—EXCEPTIONALLY STRONG.

EVERY GENUINE MANTLE BEARS THE REGISTERED TRADE MARKS **"AUR"** AND **"CX."**

WELSBACH MANTLES ENTIRELY BRITISH MADE BY BRITISH LABOUR NOW AND ALWAYS.

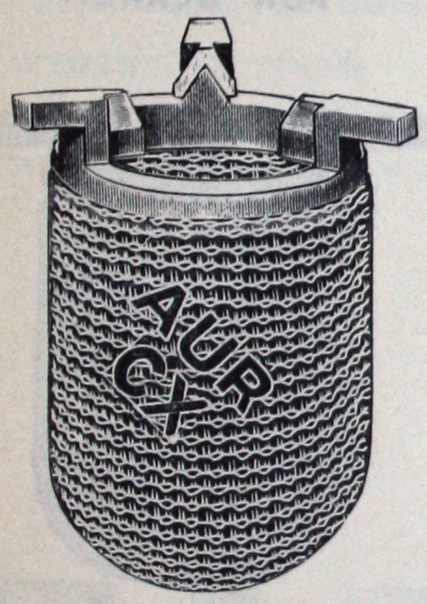
These Mantles are the most reliable it is possible to obtain, excelling in STRENGTH and BRILLIANCY. Only the very best materials are used and they are manufactured and tested under the supervision of experts with an experience in Mantle making of over a quarter of a century.

FOR GRAETZIN TYPE BURNERS.

W**7001** (Type G.)

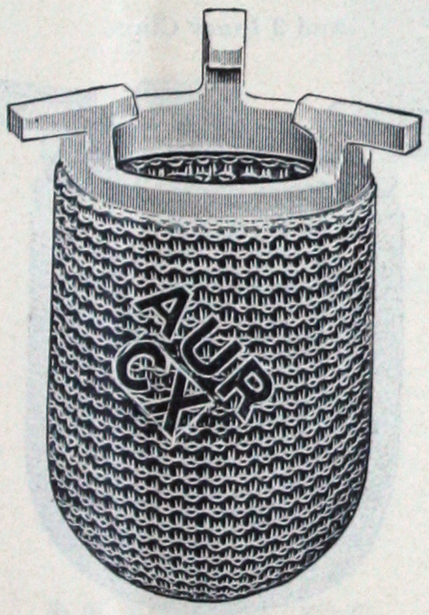
"V" FITTING.

For all Standard Inverted Burners.



W**7002** (Type K.)

OLD 3-PRONG FITTING.



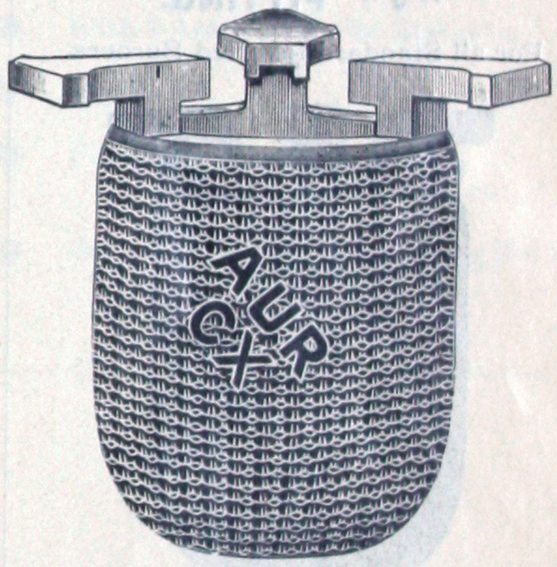
W**7003** (Type D.)

FITTING WITH 2 OUTSIDE ARMS

and 3 Inner Clips.

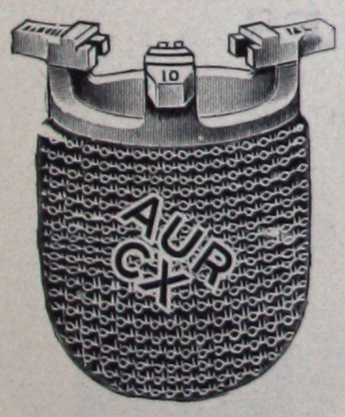
W**7004** (Type E.)

FOR BLAND.



W**7005** (Type H.)

FOR INTERMEDIATE BURNERS.

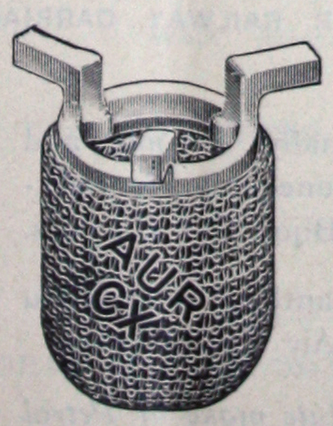


W**7006** (Type J.)
For Welsbach, Nico No. 6, and others.

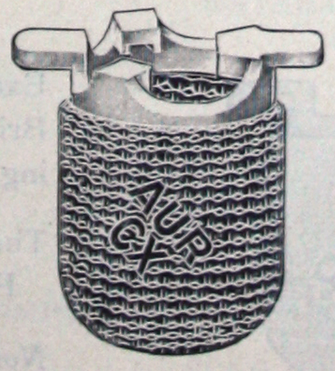
W**7007** (Type JB.)
For Bray No. 2 and Sugg No. 2.

WELSBACH BIJOU INVERTED MANTLES.

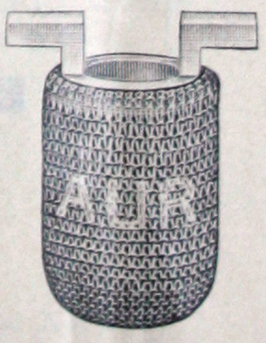
SPECIALLY SUITABLE FOR RAILWAY CARRIAGE LIGHTING.
UNEQUALLED IN BRILLIANCY AND STRENGTH.
These Mantles also fit Bijou Petrol-Air Gas Burners.
NOTE.—*State make of Petrol Burner when ordering, as the rings for these Mantles differ in size.*



W**7008** (Type L.)
Finished.



W**7009** (Type M.)
Finished.



W**7239**
Without inner lugs for Cox's Burner. 40 c.p.

W**7241**
Ditto for Cox's Burner. 100 c.p.

W**7010** (Type L.)
Soft.

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

SCALE :—Actual Size.

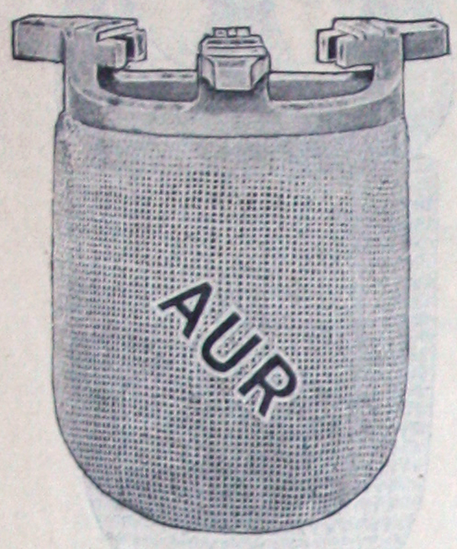
BRITISH "AUR" MADE

Premier Loom Woven Inverted Mantles.

BRITISH "AUR" MADE

UNIVERSAL FITTING.

For all Standard Types of Inverted Burners.



W**7012** (Type WF.)
W**7307** (Type WFB.)
For Bray Universal 3 ft. Burner.

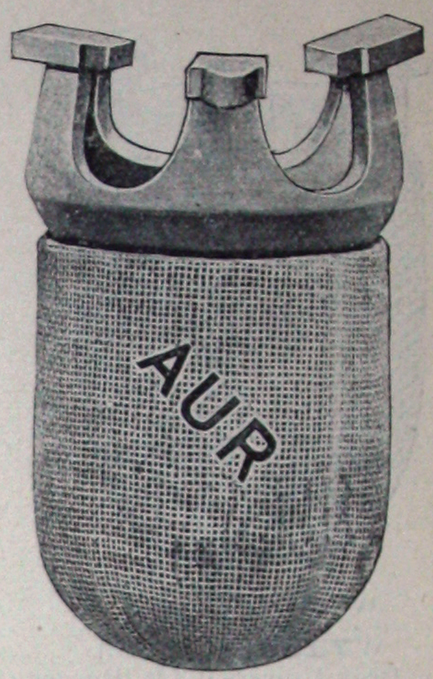
HIGHEST GRADE—MAXIMUM STRENGTH AND BRILLIANCY. GIVES A PURE WHITE LIGHT AND RETAINS ITS SHAPE.

Made of Genuine Woven Ramie Fabric.

Specially suitable for Street Lighting and absolutely unequalled for Maintenance.

British made by British Labour in the Welsbach London Factory where only the finest materials are used and the most modern manufacturing plant in the hands —— of expert workpeople. ——

FOR GRAETZIN TYPE BURNERS.



W**7013** (Type WG.)

"V" FITTING.

For all Standard Inverted Burners.

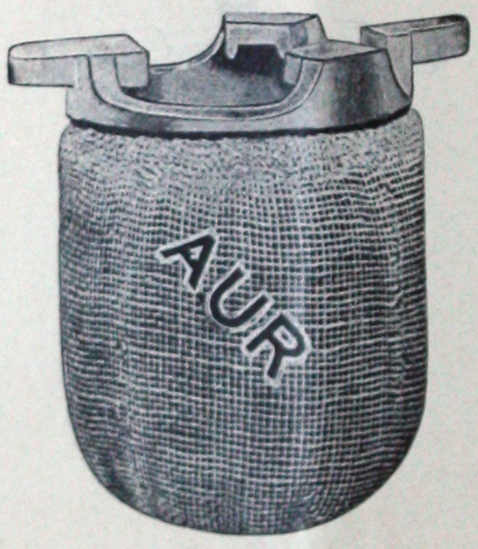
W**7014** (Type WK.)

OLD 3-PRONG FITTING.

W**7015** (Type WD.)

2 ARM FITTING

And 3 Inner Clips.



W**7016** (Type WE.)

FOR BLAND.

W**7017** (Type WH.)

FOR INTERMEDIATE BURNERS.

W**7018** (Type WJ.)
For Welsbach, Nico No. 6 and others.

W**7019** (Type WJB.)
For Bray No. 2 and Sugg No. 2.

WELSBACH PREMIER LOOM WOVEN INVERTED BIJOU MANTLES.

SPECIALLY SUITABLE FOR RAILWAY CARRIAGE LIGHTING.

W**7020** (Type WL.)

Exceptionally Strong and Brilliant, unequalled for lighting with Bijou Gas Burners.

These Mantles also fit Bijou Petrol-Air Gas Burners.

Note.—State make of Petrol Burner when ordering, as the rings for the Mantles differ in size.

W**7021** (Type WM.)

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

BRITISH "AUR" MADE

Welsbach-Hill Inverted Gas Mantles.

BRITISH "AUR" MADE

UNIVERSAL FITTING

For all Standard Inverted Burners.

W**7022** With Universal Ring.
For all Standard Size Burners.

W**7023** "V" Fitting.
For Nico Burners and others.

W**7024** Old 3-Prong Fitting.

HILL SPECIAL WEAVING.

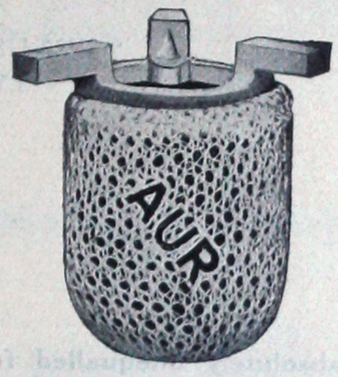
MANUFACTURED BY THE WELSBACH LIGHT CO., LTD.

These Mantles are made of exceptionally strong fabric by special process, and are very heavily impregnated.

They are manufactured in the London Factory of the Welsbach Light Co., Ltd., where only the very best of materials are used.

Every genuine Mantle bears the Registered Trade Mark "AUR."

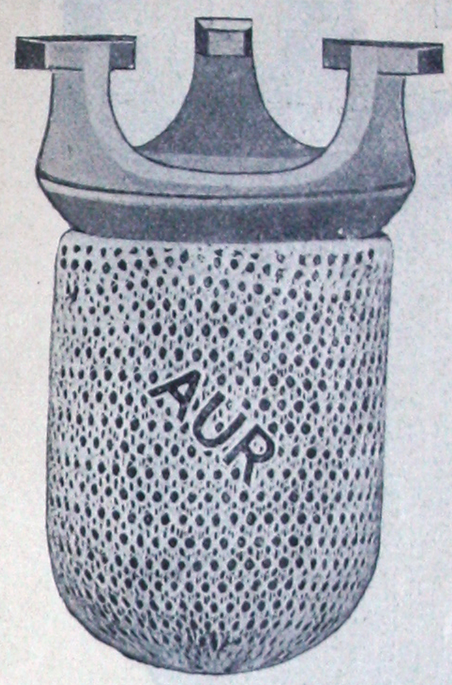
For BIJOU BURNERS.



W**7030** 3-Arm Standard Bijou.

W**7031** Bijou 2-Arm.

FOR GRAETZIN TYPE BURNERS.



W**7025** For Graetzin Type Burners.

W**7026** With 2-Arm Fitting for Star, etc.

W**7027** For Bland.

W**7028** For Intermediate Burners.
Welsbach, Nico No. 6, etc.

W**7029** Ditto, for Bray No. 2 and Sugg No. 2

W**7032**

200 C.P. MANTLES

FOR

WELSBACH "SOVEREIGN" LAMPS.

W628 200 C.P.
W628c 600 C.P.

WELSBACH "RULER" LAMP.

W629 200 C.P.

W**7032**

For "VENUS" and
GRAETZIN TYPE 200 C.P. LAMPS.

W**7032a**

300 C.P. MANTLES

FOR

WELSBACH "EMPEROR" LAMPS.

Figs. W626 and W627.
All sizes.

WELSBACH "SOVEREIGN" LAMPS.

W628B 300 C.P.
W628D 1000 C.P.

WELSBACH "RULER" LAMP.

W629B 300 C.P.

W**7033**

FOR

"VENUS," Nico No. 17,
SUGG (1912), MANNESMANN, and
GRAETZIN TYPE 300 C.P. LAMPS.

W**7033a**

W**7033**

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

SCALE : Actual Size.

WELSBACH

INVERTED GAS MANTLES.

BRITISH "AUR" MADE

BRITISH "AUR" MADE

For High Candle Power—Low Pressure Lamps.

Best quality Ramie—Heavily impregnated—Maximum results with minimum gas consumption.

200 Candle Power Mantles.

W**7034**
3-Lock Ramie.

3-LOCK RAMIE

FOR
WELSBACH "SOVEREIGN" LAMPS.
W628 (200 C.P.) and W628c (600 C.P.).

WELSBACH "RULER" LAMP.
W629 (200 C.P.).

W**7034**

FOR
"VENUS" and GRAETZIN TYPE LAMPS.
200 C.P.

W**7034a**

6-LOCK RAMIE

FOR
WELSBACH "SOVEREIGN" LAMPS.
W628 (200 C.P.) and W628c (600 C.P.).

WELSBACH "RULER" LAMP.
W629 (200 C.P.).

W**7035**

FOR
"VENUS" and GRAETZIN TYPE LAMPS.
200 C.P.

W**7035a**

W**7035**
6-Lock Ramie.

These Mantles are absolutely unequalled for maintenance, their strength being such that they withstand considerable vibration. They are made of the very finest materials in the London Factory of the Welsbach Light Co., Ltd., where the most up-to-date machinery is used. Test the mantles for yourself and be convinced of their superiority. Every genuine Mantle bears the Registered Trade Mark "AUR"

300 Candle Power Mantles.

W**7036**
3-Lock Ramie.

3-LOCK RAMIE

FOR
WELSBACH "EMPEROR" LAMPS.
W626 and W627 (all sizes).

WELSBACH "SOVEREIGN" LAMPS.
W628B (300 C.P.) & W628D (1000 C.P.)

WELSBACH "RULER" LAMP.
W629B (300 C.P.)

W**7036**

FOR
"VENUS" Nico No. 17, Sugg (1912), MANNESMANN and GRAETZIN TYPE LAMPS.

W**7036a**

6-LOCK RAMIE

FOR
WELSBACH "EMPEROR" LAMPS.
W626 and W627 (all sizes).

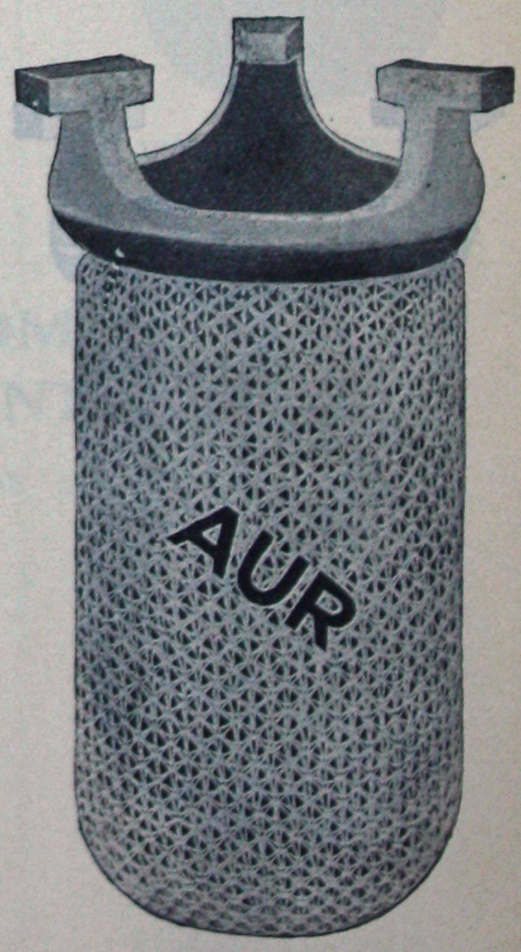
WELSBACH "SOVEREIGN" LAMPS.
W628B (300 C.P.) and W628D (1000 C.P.).

WELSBACH "RULER" LAMP.
W629B (300 C.P.).

W**7037**

FOR
"VENUS," Nico No. 17, Sugg (1912), MANNESMANN and GRAETZIN TYPE LAMPS.

W**7037a**



W**7037**
6-Lock Ramie.

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

"SUNLIGHT"

BRITISH MADE

TRIPLEX INVERTED GAS MANTLES.

BRITISH MADE

UNIVERSAL FITTING.

For all Standard Inverted Burners.

W**7038** (Type P.)

W**7319** (Type PB.)
For Bray Universal 3 ft. Burner.

Sold by the Welsbach Light Company, Ltd., as Agents for the New Sunlight Incandescent Company (1900), Ltd.

MADE OF RAMIE FABRIC-TRIPLEX KNITTED.

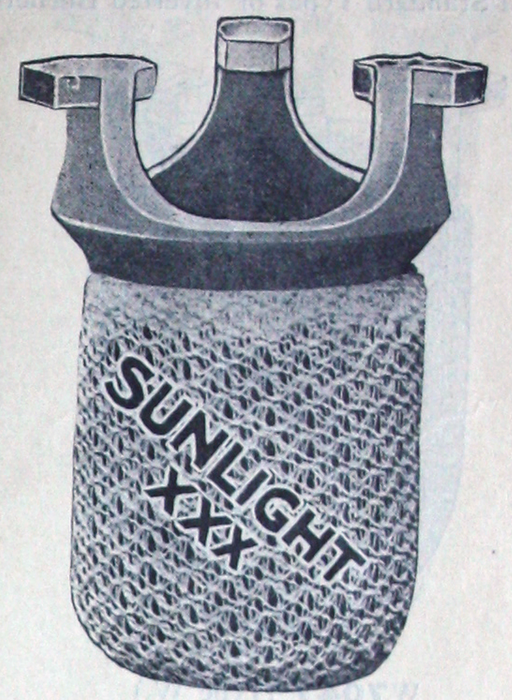
An Exceptionally Strong Mantle of considerable brilliancy.

Made in the London Factory of the Welsbach Light Company, Ltd., where only the best Materials are used.

Every genuine Mantle bears the Registered Trade Mark **"SUNLIGHT."**

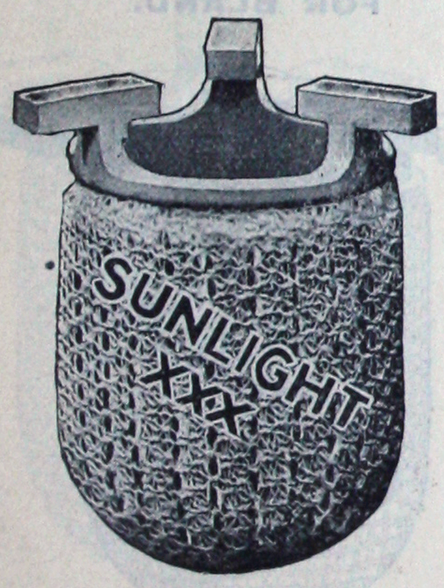
Special Quotations on request for Inverted Mantles to bear Customers' own Marks and Labels.

FOR GRAETZIN TYPE BURNERS.



W**7039** (Type R.)

OLD 3-PRONG FITTING.



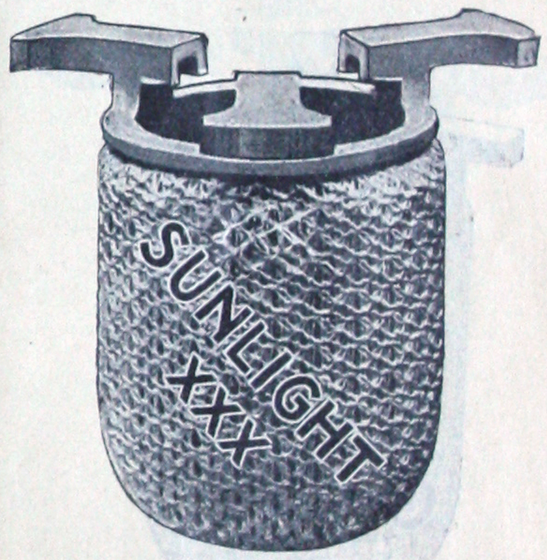
W**7040** (Type N.)

FITTING WITH 2 OUTSIDE ARMS

and 3 Inner Clips.

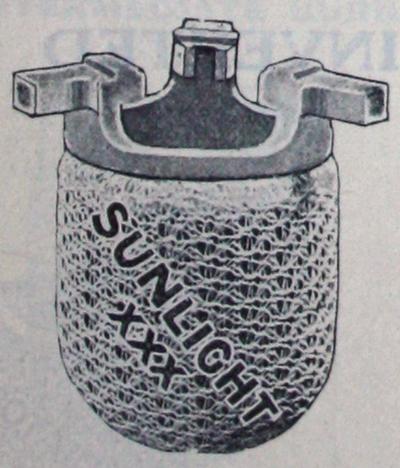
W**7041** (Type O.)

FOR BLAND.



W**7042** (Type S.)

FOR INTERMEDIATE BURNERS.



W**7043** (Type I.)

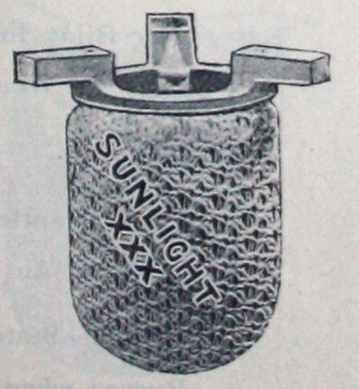
For Welsbach, Nico No. 6, and others.

W**7044** (Type IB.)

For Bray No. 2 and Sugg No. 2.

"SUNLIGHT" TRIPLEX BIJOU INVERTED MANTLES

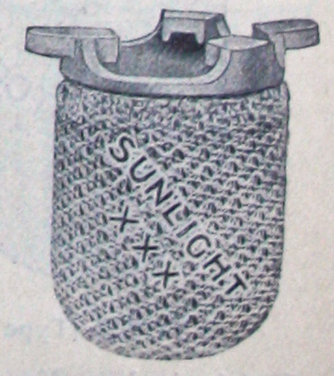
FOR BIJOU INCANDESCENT GAS BURNERS.



W**7045** (Type T.)

These Mantles also fit Bijou Petrol Air Gas Burners.

NOTE.—State make of Petrol Burner when ordering, as the Rings for these Mantles differ in size.



W**7046** (Type T2.)

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

Scale : Actual Size

"GLADIATOR"

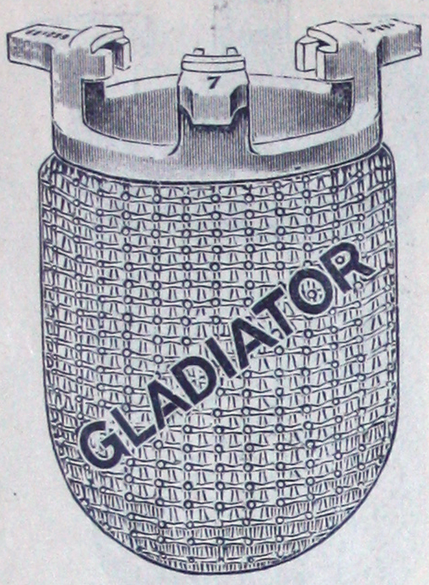
BRITISH MADE

INVERTED GAS MANTLES.

BRITISH MADE

UNIVERSAL FITTING.

For all Standard Types of Inverted Burners.



W**7047** (Type W.)

W**7308** (Type WB.)
For Bray Universal 3 ft. Burner.

Sold by the WELSBACH LIGHT COMPANY, LTD., as Agents for the NEW SUNLIGHT INCANDESCENT COMPANY (1900) LTD.

Made of Ramie Fabric—Double Knitted uniform impregnation.

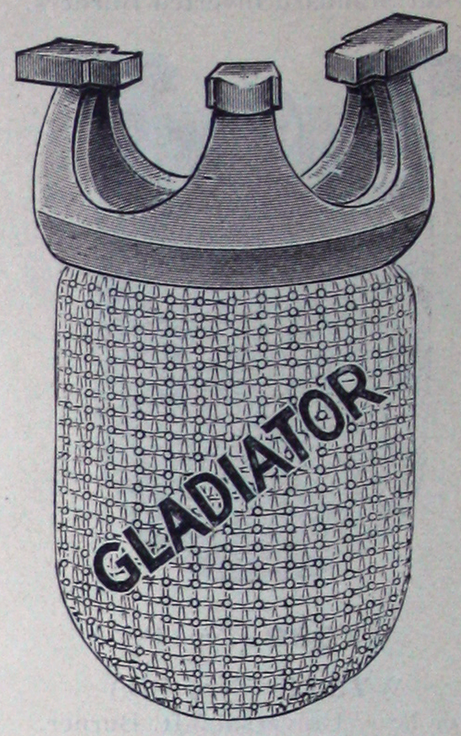
A Very Good Mantle.
Thoroughly Reliable.

Made in the London Factory of the WELSBACH LIGHT CO. Ltd., where only the best materials are used.

Every genuine Mantle bears the Registered Trade Mark "GLADIATOR."

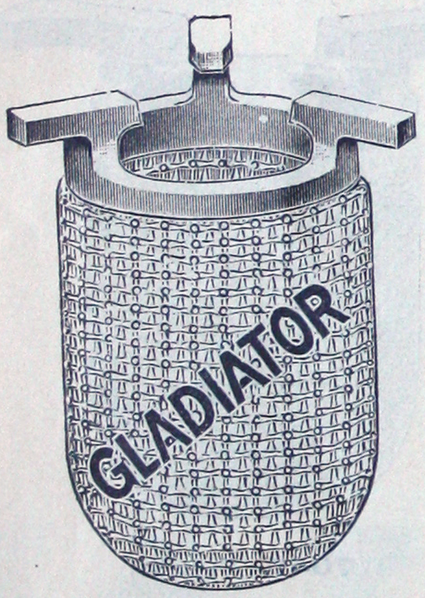
Special Quotations on request for Inverted Mantles to bear Customer's own Marks and Labels.

FOR GRAETZIN TYPE BURNERS



W**7048** (Type X.)

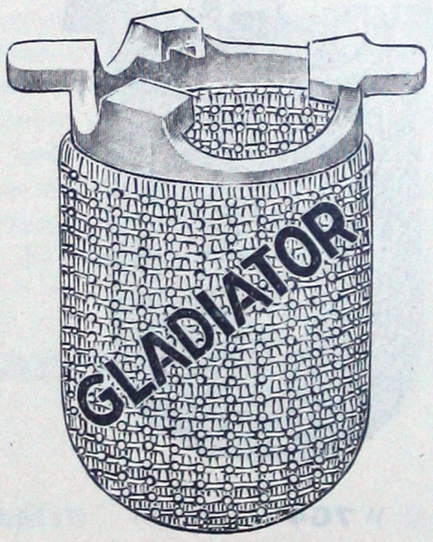
OLD 3-PRONG FITTING.



W**7049** (Type U.)

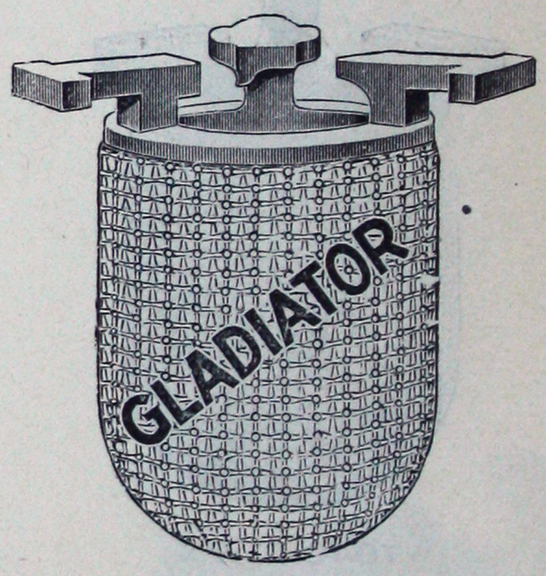
FITTING WITH 2 OUTSIDE ARMS

And 3 Inner Clips.



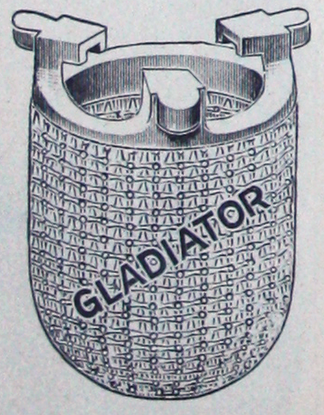
W**7050** (Type V.)

FOR BLAND.



W**7051** (Type Y.)

FOR INTERMEDIATE BURNERS.

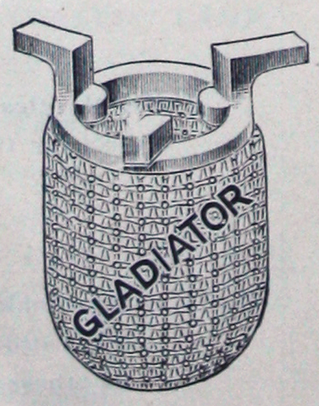


W**7052** (Type Z.)

For Welsbach, Nico No. 6 and others.
W**7053** (Type ZB.)

For Bray No. 2 and Sugg No. 2.

"GLADIATOR" BIJOU INVERTED MANTLES.

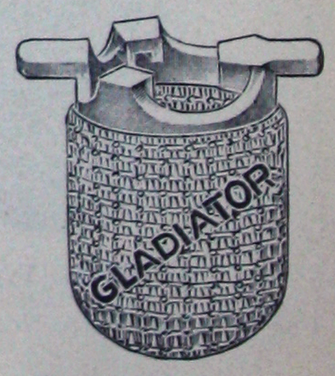


W**7055** (Type BG.)

For Bijou Incandescent Gas Burners.

These Mantles also fit Bijou Petrol Air Gas Burners.

NOTE.—State make of Petrol Burner when ordering as the Rings for these Mantles differ in size.



W**7054** (Type A.G.)

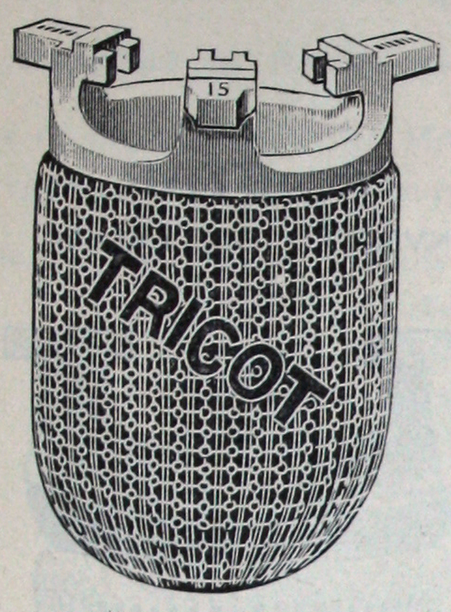
The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

"TRICOT"

BRITISH MADE INVERTED GAS MANTLES. BRITISH MADE

UNIVERSAL FITTING.

For all Standard Types of Inverted Burners.



W**7056** (Type SW.)
W**7309** (Type SWB.)
For Bray Universal 3 ft. Burner.

Sold by the Welsbach Light Co., Ltd., as Agents for the New Sunlight Incandescent Co. (1900), Ltd.

MADE OF RAMIE FABRIC—DOUBLE KNITTED.

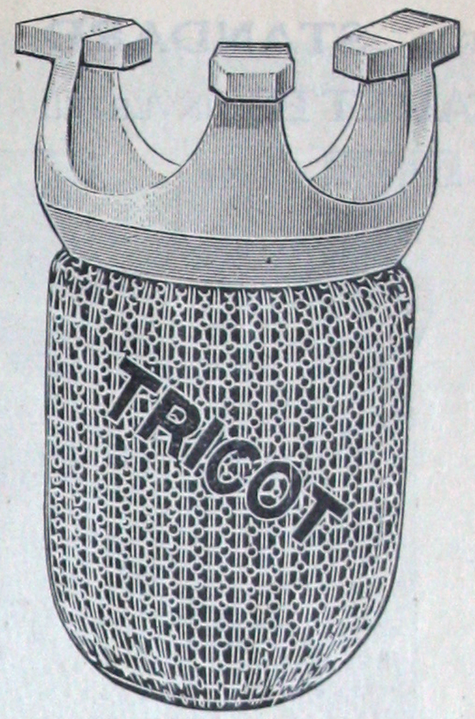
A dependable Mantle of good shape and finish.

Made in the London Factory of the Welsbach Light Co., Ltd., where only the best materials are used.

Every genuine Mantle bears the Registered Trade Mark **"TRICOT."**

Special Quotations on request for Inverted Mantles to bear customers' own marks and labels.

FOR GRAETZIN TYPE BURNERS.



W**7057** (Type SX.)

OLD 3-PRONG FITTING.

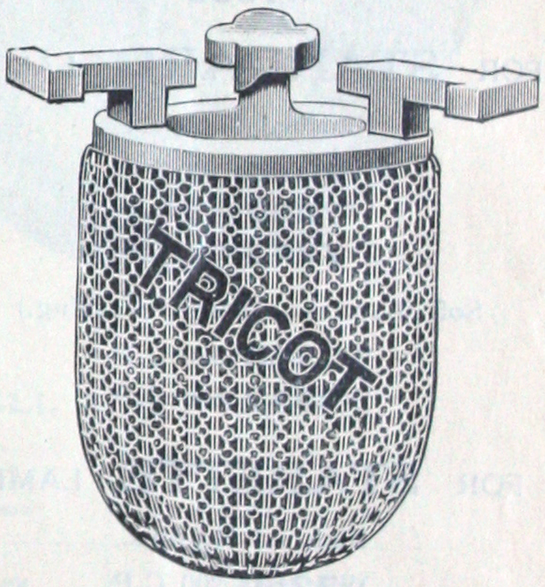
W**7058** (Type SU.)

FITTING WITH 2 OUTSIDE ARMS.

And 3 Inner Clips.

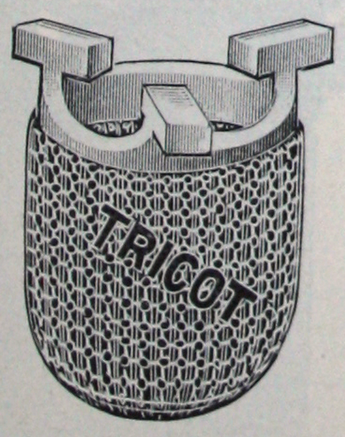
W**7059** (Type SV.)

FOR BLAND.



W**7060** (Type SY.)

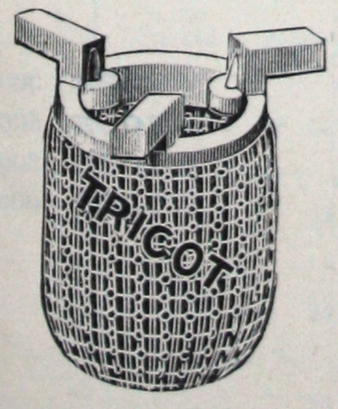
FOR INTERMEDIATE BURNERS.



W**7061** (Type SZ.)
For Welsbach, Nico No. 6, and others

W**7062** (Type SZB.)
For Bray No. 2 and Sugg No. 2

"TRICOT" BIJOU INVERTED MANTLES.

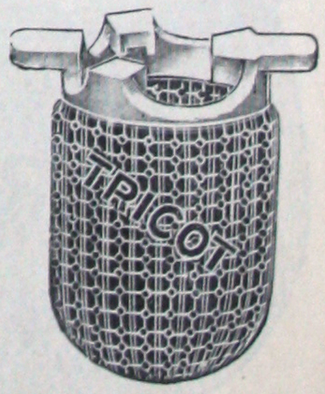


W**7064** (Type SBG.)

For Bijou Incandescent Gas Burners.

These Mantles also fit Bijou Petrol-Air Gas Burners.

Note:—State make of Petrol Burner when ordering, as the Rings for these Mantles differ in size.



W**7063** (Type SAG.)

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

SCALE :—Actual Size.

BRITISH "AUR" MADE

Inverted Mantles for Petroleum Lamps.

BRITISH "AUR" MADE

Every genuine Mantle bears the Trade Mark **"AUR,"** and is **British Made by British Labour.**

FOR **STANDARD** OR **STARETTE** INVERTED LAMPS.

W**7099**

FOR **STANDARD** LAMPS.

Finished Mantles.

W**7098** 200 C.P.
W**7099** 300 C.P.
W**7247** 500 C.P.

Soft Mantles. (Special weaving.)

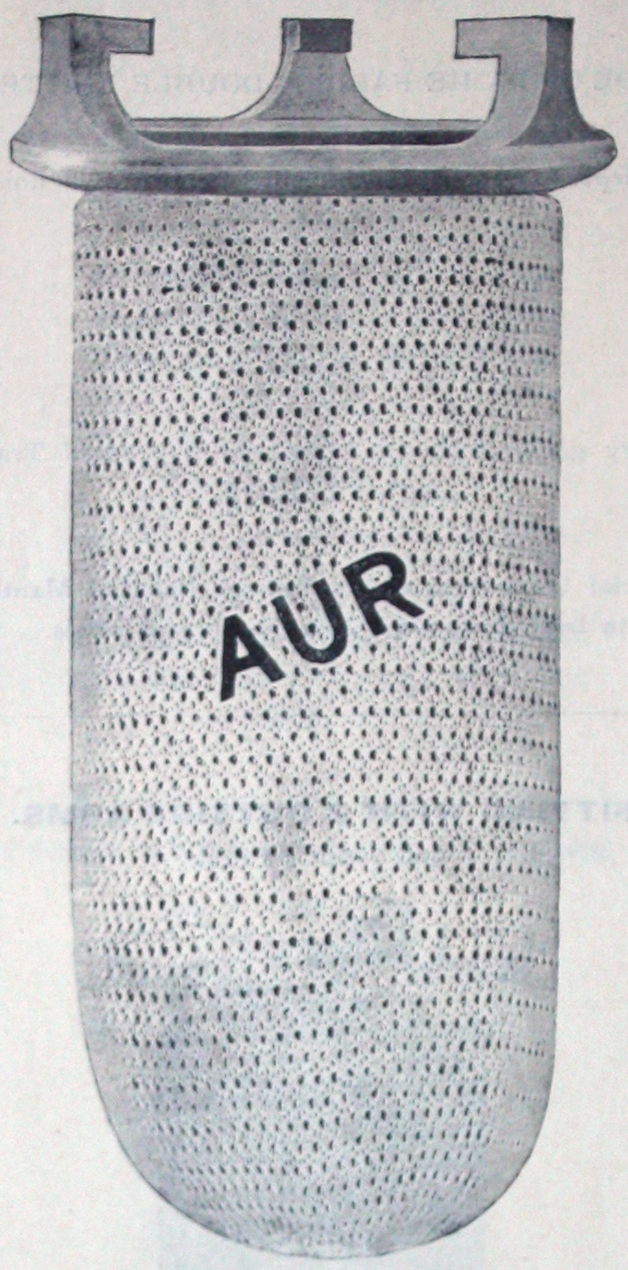
W**7248** 300 C.P.
W**7249** 500 C.P.

FOR **STARETTE** LAMPS.

Finished Mantles.

W**7250** 200 C.P.
W**7251** 250 C.P.

FOR **KITSON** INVERTED LAMPS.



W**7300**

W**7243** 100 C.P.
W**7244** 200—300 C.P.
W**7245** 250—500 C.P.
W**7300** 1000 C.P.

FOR **STAR** INVERTED OIL LAMPS.

W**7105**

FOR **STAR** LAMPS.

W**7105** 250 C.P.
W**7106** 500 C.P.
W**7107** 1000 C.P.

W**7253**

FOR **BLANCHARD** INVERTED LAMPS.

Finished Mantles.

W**7252** 100 C.P.
W**7253** 300 C.P.
W**7254** 500 C.P.

For soft mantles for Blanchard Lamps see page **15**.

FOR **LUMINA** INVERTED LAMPS.

W**7094** 300 C.P.
W**7095** 500 C.P.
W**7096** 800 C.P.
W**7097** 1000 C.P.

W**7094**

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

BRITISH "AUR" MADE

Soft Inverted MANTLES for PHAROS-WELSBACH HIGH-PRESSURE LAMPS.

BRITISH "AUR" MADE

ABSOLUTELY UNEQUALLED for MAINTENANCE.

Supplied in Ramie or Silk—Single or Double Woven.

Made of the very FINEST MATERIALS, thoroughly well and uniformly impregnated to give maximum results at the lowest point of gas consumption.

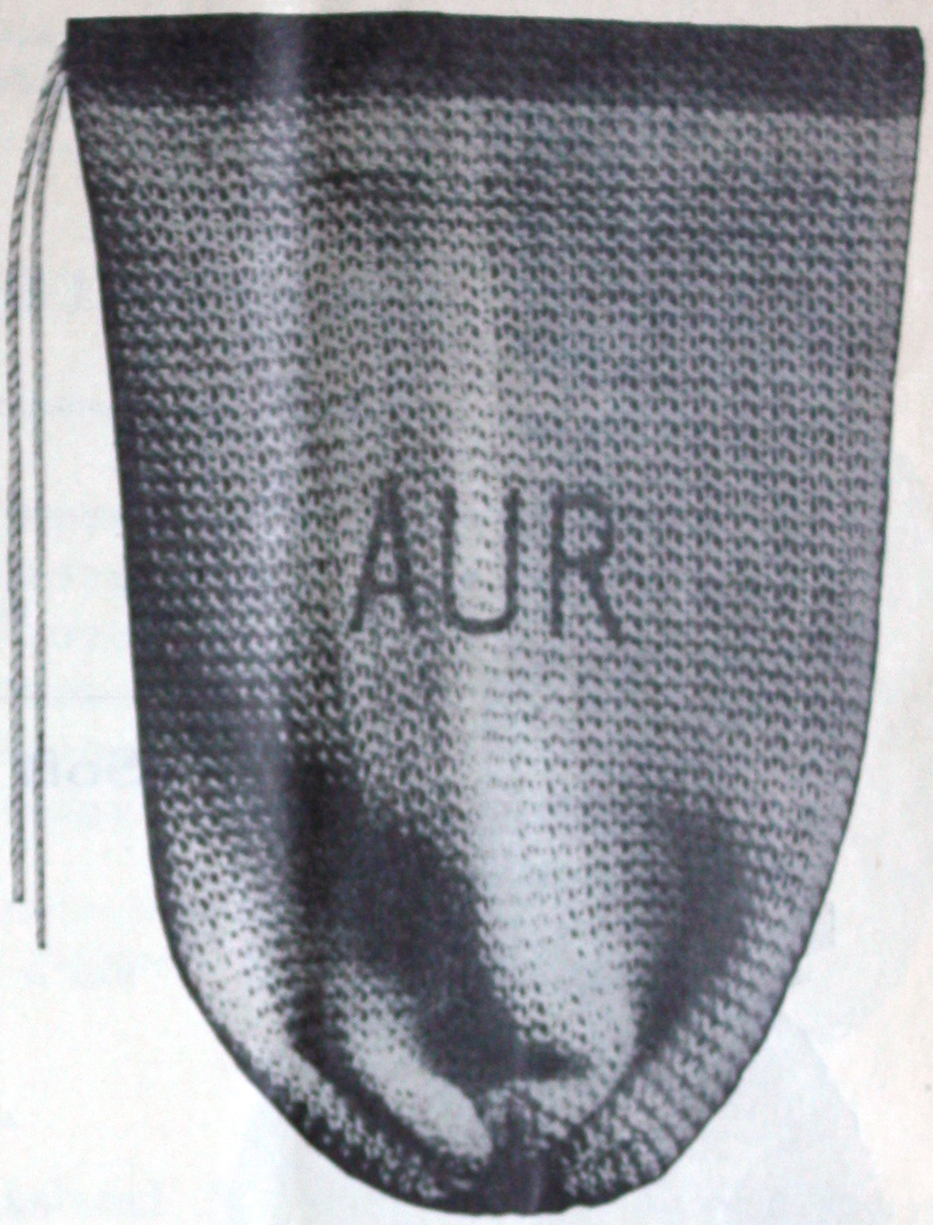
These Mantles being specially treated are practically immune from the effect of moisture.

They are supplied in what is known as the "soft" form, being tied to the mantle carrier by means of asbestos cord, and being self-shaping Mantles, they are burnt off when fitted in position in the lamps, automatically assuming a proper shape to fit flame.

Every genuine Mantle bears the Registered Trade Mark— "AUR."

Manufactured in the London Factory of the Welsbach Light Co., Ltd., where only the very finest materials are used.

W7079.



W7082.

MANTLES FOR PHAROS-WELSBACH FACTORY AND INDOOR SMALL UNIT LAMPS.

For LAMPS:—	Packed in Boxes of:—	RAMIE.	SILK. Single Woven.	SILK. Double Woven.
80 and 100 c.p. Lamps	Boxes of 72	W7078	W7330	W7333
150 c.p. Lamps	,, ,, 72	W7079	W7331	W7334
300 c.p. Lamps	,, ,, 60	W7080	W7332	W7335

MANTLES FOR PHAROS-WELSBACH OUTDOOR LAMPS.

For LAMPS:—	Packed in Boxes of:	RAMIE.	SILK. Single Woven.	SILK. Double Woven.
300 c.p. Lamps	Boxes of 60	W7081	W7336	W7341
500 c.p. Lamps	,, ,, 24	W7299	W7337	W7342
600 c.p. Lamps	,, ,, 24	W7082	W7338	W7343
1000 c.p. 2000 c.p. and 3000 c.p. Lamps ...	,, ,, 24	W7083	W7339	W7344
1500 c.p. 3000 c.p. and 4500 c.p. Lamps ...	,, ,, 12	W7084	W7340	W7345

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

SCALE : Actual Size.

BRITISH "AUR" MADE

Inverted Mantles for Keith HIGH-PRESSURE LAMPS.

BRITISH "AUR" MADE

W**7346**

W**7346** 60 c.p.

Finished Collodionised Mantle.

W**7347**

W**7347** 100 c.p.

Finished Collodionised Mantle.

W**7348**

W**7348** 150 c.p.

Finished Collodionised Mantle.

W**7072**

Soft Mantles for Keith High-Pressure Lamps

Absolutely unequalled for Maintenance.

Made of the very **finest materials** thoroughly well and uniformly impregnated and true to shape and size, combining maximum strength and illuminating power.

Mounted on Magnesia Screw Rings.

Also supplied (to order) to suit Sugg's and other systems, either with or without rings.

For LAMPS—	Packed in Boxes of :	Selected RAMIE Thread.	SILK. Single Woven.	SILK. Double Woven.
45 c.p. (old pattern)	Boxes of 36 only	W**7065**	W**7310**	W**7320**
60 c.p.	,, ,, 36 ,,	W**7066**	W**7311**	W**7321**
90 c.p. (old pattern)	,, ,, 36 ,,	W**7067**	W**7312**	W**7322**
100 c.p.	,, ,, 36 ,,	W**7068**	W**7313**	W**7323**
150 c.p.	,, ,, 36 ,,	W**7069**	W**7314**	W**7324**
300 c.p.	,, ,, 20 ,,	W**7070**	W**7315**	W**7325**
500 c.p.	,, ,, 16 ,,	W**7071**	W**7316**	W**7326**
1000 c.p.	,, ,, 10 ,,	W**7072**	W**7317**	W**7327**
1500 c.p.	,, ,, 6 ,,	W**7073**	W**7318**	W**7328**

Every genuine Welsbach Mantle bears the Registered Trade Mark "AUR," and is BRITISH MADE by BRITISH LABOUR.

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

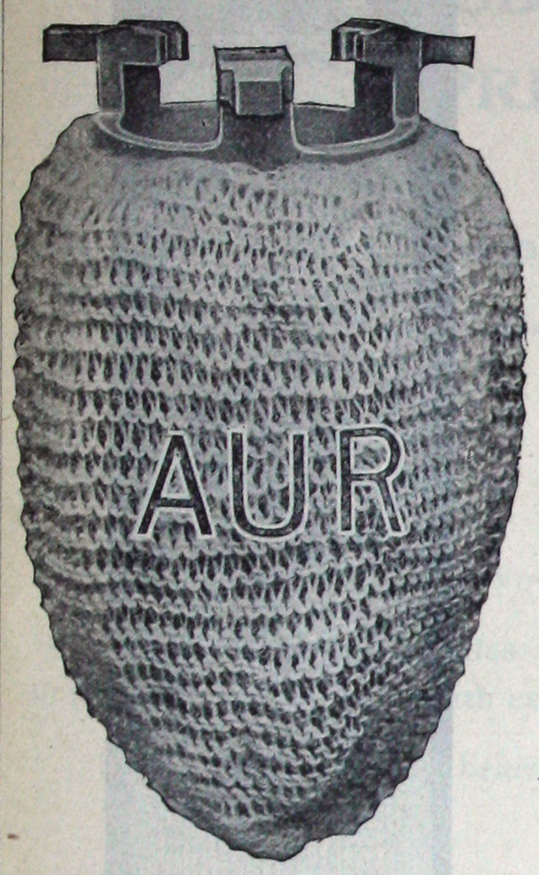
BRITISH "AUR" MADE

Soft Self-Shaping Inverted Mantles.

BRITISH "AUR" MADE

PACKED IN FLAT CARDBOARD BOXES.

Every genuine Mantle bears the Registered Trade Mark "AUR," and is BRITISH MADE in the London Factory of the Welsbach Light Co., Ltd., where only the finest materials are used.



W7074

For all **Standard Size** Inverted Burners.

WITH UNIVERSAL RING.

W**7074**

GRAETZIN FITTING.

W**7075**

Also supplied (to order) with any of the Rings shown on Page 5.

For SELAS Lamps

WELSBACH QUALITY.

W**7076**	100 C.P.
W**7076**A	200 C.P.
W**7077**	300 C.P.
W**7298**	500 C.P.
W**7296**	750 C.P.
W**7297**	1,000 C.P.

Also supplied without Ring; but with Asbestos Cord.

W7077

Soft Mantles for Petroleum Inverted Lamps.

W7086

For

BLANCHARD

Petroleum Inverted Lamps.

BEST WELSBACH QUALITY.

W**7085**	100 C.P.
W**7086**	300 C.P.
W**7087**	500 C.P.
W**7088**	700 C.P.
W**7089**	1,000 C.P.

For FINISHED MANTLES for Blanchard Lamps See Page 12.

Finished Mantles for Petroleum Inverted Lamps.

For

PETROMAX

Petroleum Inverted High Power Lamp.

W**7303**	150 C.P.
W**7304**	300 C.P.
W**7305**	600 C.P.

W7304

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

SCALE : Actual Size.

WELSBACH

BRITISH "AUR" MADE

UPRIGHT GAS MANTLES.

BRITISH "AUR" MADE

W**7108**

Welsbach "C" Mantles.

2-ply Ramie Thread Single Knitted.

For all "C" Burners.

W**7108**

W**7109**

Plaissetty Mantles.

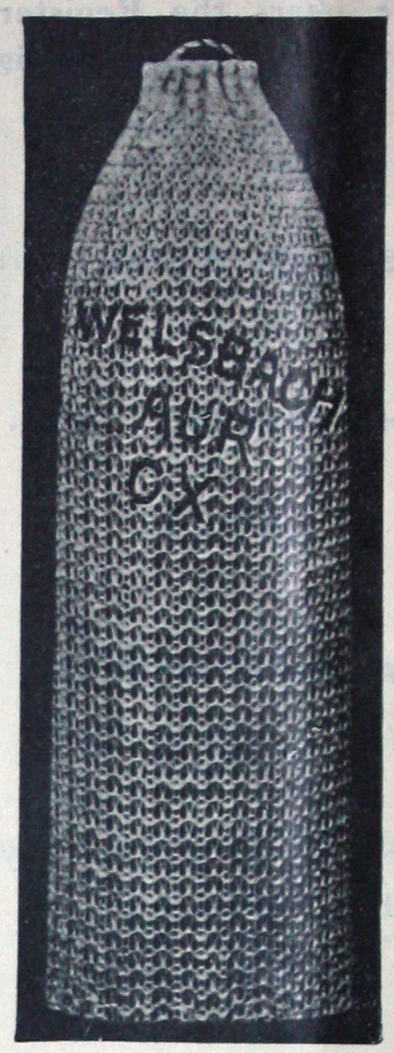
(Manufactured by the Welsbach Co., Ltd., under licence)

Finest 3-ply Cotton.

Specially Suitable for Public Lighting.

For all "C" Burners.

W**7109**



W**7110**

Welsbach "CX" Mantles.

Double-Knitted Ramie Thread.

For all "C" Burners.

W**7110**

"CX" is a Welsbach Registered Trade Mark.

W**7111**

Welsbach "KK" Mantles.

Selected Ramie for Street Lighting.

For all "C" Burners.

W**7111**

See pages **18** and **21** for Kern and Gem Sizes.

The Welsbach Upright Mantles were the original Incandescent Gas Mantles, and have maintained the highest perfection for over a quarter of a century. Each Mantle is thoroughly tested before being despatched, and only the very finest materials are used in their manufacture.

For absolute reliability they cannot be equalled, and for whatever purpose they are required they will be found to give entire satisfaction.

Unequalled for Brilliancy—Durability or Economy—and entirely British made.

Every Genuine Mantle bears the Registered Trade Mark "AUR."

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

BRITISH "AUR" MADE

UPRIGHT GAS MANTLES.

BRITISH "AUR" MADE

WELSBACH PREMIER WOVEN UPRIGHT GAS MANTLES.

FOR ALL "C" BURNERS.

The Original Loom Woven Ramie Mantles.

Great illuminating power. Of exceptional strength, ensuring long life.

Pure White Light.

Largely used for Street Lighting.
Absolutely unequalled for maintenance.

Made of genuine Loom Woven Ramie Fabric, and thoroughly well impregnated

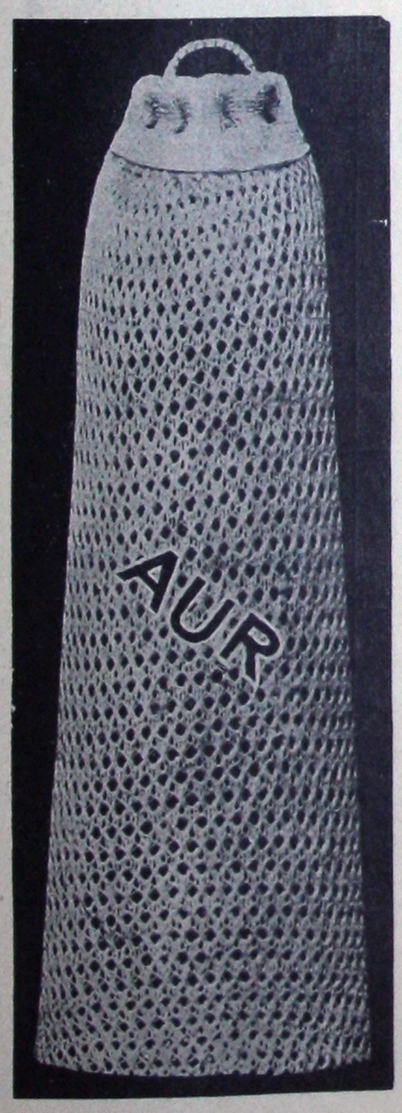
Among all other Mantles these excel for Brilliancy and Durability. They are manufactured under expert supervision with experience gained by over a quarter of a century

Every genuine Mantle bears the Registered Trade Mark "AUR."

W**7113**

(See page 18 or Kern sizes).

W**7113**



W**7112**

WELSBACH-HILL WEAVING UPRIGHT GAS MANTLES.

FOR ALL "C" BURNERS.

(Manufactured by the Welsbach Co., Ltd.)

These Mantles are made of exceptionally strong Fabric, by special process and are very heavily impregnated.

Their strength is such that they will withstand excessive vibration without breaking.

They are manufactured in the London Factory of the Welsbach Light Co., Ltd., where only the very best of materials are used.

Every genuine Mantle bears the Registered Trade Mark "AUR."

No. W**7112**

(See page 18 for Kern sizes).

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

SCALE : Actual Size.

BRITISH "AUR" MADE

MANTLES FOR WELSBACH-KERN BURNERS.

BRITISH "AUR" MADE

The Mantles shewn on this page are undoubtedly the very best for use with the famous Welsbach-Kern Burners.

For Mantles for No. **7** Kern Burner see page 22.

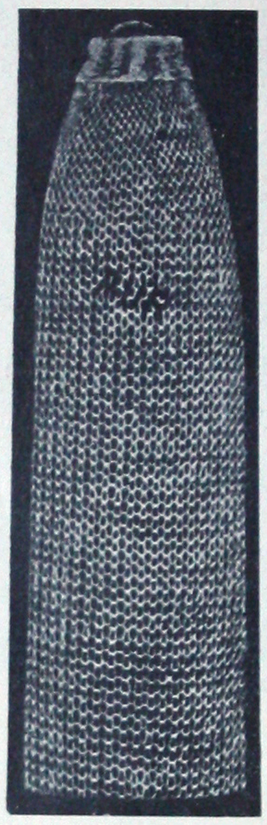
Every genuine Mantle bears the registered Trade Mark **"AUR."**

Size No. **0**
In "C" Fabric.
W**7114**

In PLAISSETTY Fabric.
W**7119**

Size No. **1**
In "C" Fabric.
W**7115**

In PLAISSETTY Fabric.
W**7120**



Size No. **2**
In "C" Fabric.
W**7116**

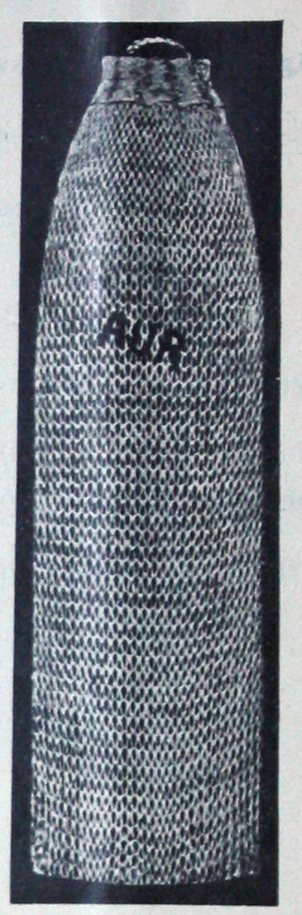
In PLAISSETTY Fabric.
W**7121**

In "CX" Fabric.
W**7127**

In "KK" Fabric.
W**7130**

In PREMIER Woven.
W**7133**

In WELSBACH-HILL Weaving.
W**7124**



Size No. **3**
In "C" Fabric.
W**7117**

In PLAISSETTY Fabric.
W**7122**

In "CX" Fabric.
W**7128**

In "KK" Fabric.
W**7131**

In PREMIER Woven.
W**7134**

In WELSBACH-HILL Weaving.
W**7125**

Size No. **4**
In "C" Fabric.
W**7118**

In PLAISSETTY Fabric.
W**7123**

In "CX" Fabric.
W**7129**

In "KK" Fabric.
W**7132**

In PREMIER Woven.
W**7135**

In WELSBACH-HILL Weaving.
W**7126**

These Mantles are unequalled for Strength, Brilliancy and Economy, reducing Maintenance Costs to a Minimum.

Manufactured in the London Factory of the Welsbach Light Co., Ltd., where only the very best materials are used, and a modern manufacturing plant in the hands of skilled British workpeople.

Mantles for Visso Burners.

No. **0**	No. **1**	No. **2**	No. **3**	No. **4**	No. **5**	No. **6**
Size 50 × 10 mm.	Size 63 × 14 mm.	Size 81 × 16 mm.	Size 89 × 19 mm.	Size 95 × 23 mm.	Size 100 × 23 mm.	Size 117 × 30 mm.
W**7350**	W**7351**	W**7352**	W**7353**	W**7354**	W**7355**	W**7356**

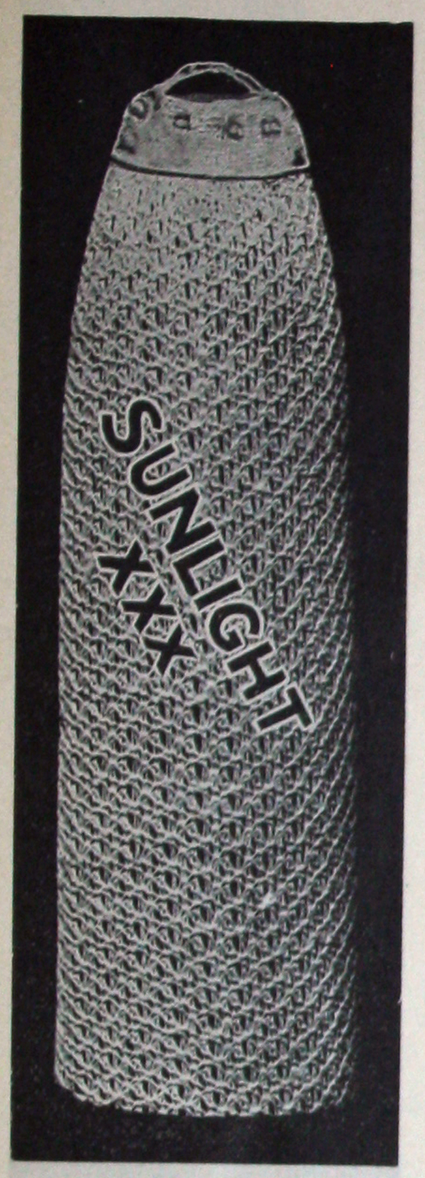
The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

SUNLIGHT
UPRIGHT GAS MANTLES.

BRITISH MADE

BRITISH MADE

Sold by the Welsbach Company as Agents for New Sunlight Incandescent Company (1900), Ltd.



W**7193**

"Sunlight" Triplex.

Made of Ramie Fabric—
Triplex Knitted.

An exceptionally strong Mantle of considerable brilliancy.

W**7193**	For "C" Burners.
W**7194**	,, Size 4 Kern.
W**7195**	,, ,, 3 ,,
W**7196**	,, ,, 2 ,,

"Sunlight" 252.

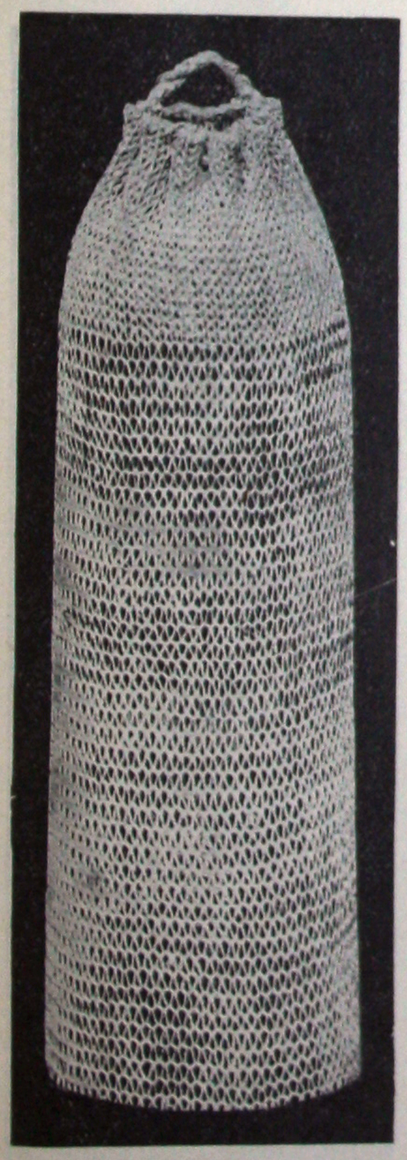
Made of Two-Ply Ramie Heavily Impregnated.

Specially suitable for Street Lighting.

W**7197**	For "C" Burners.
W**7198**	,, Size 4 Kern.
W**7199**	,, ,, 3 ,,
W**7200**	,, ,, 2 ,,

Every Genuine Mantle bears the Registered Trade Mark "SUNLIGHT," and is BRITISH MADE.

W**7197**



W**7201**

"Sunlight" Tinted. Mantle,

Giving a Beautiful Golden Light.

W**7201**	For "C" Burners.

British Made.

"Gladiator."

Made of Ramie Fabric— Single Knitted.

A very good Mantle, thoroughly reliable.

W**7202**	For "C" Burners.
W**7203**	,, Size 4 Kern.
W**7204**	,, ,, 3 ,,
W**7205**	,, ,, 2 ,,

Every Genuine Mantle bears the Registered Trade Mark "Gladiator."

W**7202**

Special Quotations on request for any of the Sunlight Company's Mantles to bear customers' own marks and labels, by not less than 7-gross lots.

British made by British Labour in the London Factory of the Welsbach Light Co., Ltd.

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

SUNLIGHT
UPRIGHT GAS MANTLES.

BRITISH MADE

BRITISH MADE

SCALE : Actual Size.

Sold by the Welsbach Light Co., Ltd., as Agents for New Sunlight Incandescent Co. (1900), Ltd.

All Sunlight Mantles are British Made by British Labour in the London Factory of the Welsbach Light Co., Ltd., where only the finest materials are used.

Special quotations on request for any of the Sunlight Co.'s Mantles, to bear customers' own marks and labels, by not less than 7-gross lots.

"TRICOT" MANTLES.

Made of Ramie Fabric, Single Knitted.

A dependable Mantle of good shape and finish.

W**7207** For "C" Burners.

Every genuine Mantle bears the Registered Trade Mark "Tricot," and is British Made by British Labour.

W**7207**

W**7208**

"GUARANTEE" N.S.C.

W**7208** For "C" Burners.

Every genuine Mantle bears the Registered Trade Mark "Guarantee N.S.C." and is British Made.

Plain Mantles

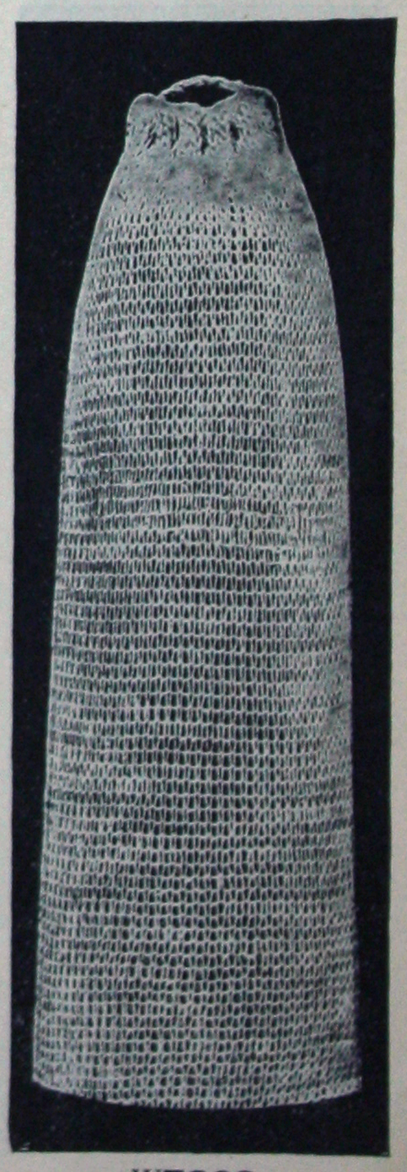
Unmarked and Packed in Plain Boxes.

W**7209**

In "Tricot" quality.

W**7210**

In Sunlight "XXX" quality.



W**7209**

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

BRITISH "AUR" MADE

WELSBACH

UPRIGHT GAS MANTLES.

BRITISH "AUR" MADE

W**7136**

Welsbach Mantles

FOR

GEM BURNERS

W**7136**, in Welsbach "C" Fabric.

W**7137**, in Plaissetty Fabric.

W**7138**

Welsbach Mantles

FOR

PEARL BURNER

Welsbach Quality—

W**7138**

In Plaissetty Fabric—

W**7139**

W**7185**

Mantles for Sugg's Low Pressure Burners.

Nos. 2, 3 and 4.

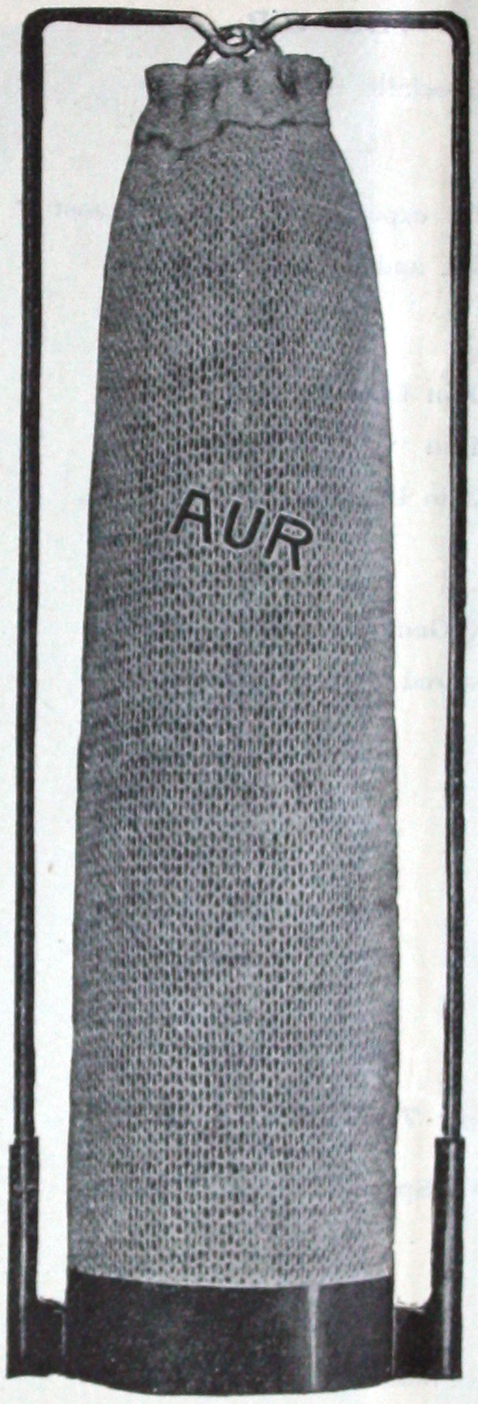
(In Welsbach "C" or Plaissetty Fabric, as desired.)

W**7185** in Welsbach "C" Fabric.

W**7186** in Plaissetty Fabric.

Intensive Mantles.

For Standard "BLOCK LIGHT" Fittings.



W**7187**

Complete with Caps, Wires and Burner-Gauzes for

STANDARD "BLOCK LIGHT" FITTING.

Double Knitted Ramie or Plaissetty Fabric, as desired.

W**7187** in Double Knitted Ramie.

W**7188** in Plaissetty Fabric.

W**7189**

LOOP—without Cap and Wires. Double Knitted Ramie or Plaissetty Fabric, as desired.

5-inch

W**7189** in Double Knitted Ramie.

W**7190** in Plaissetty Fabric.

6-inch

W**7191** in Double Knitted Ramie.

W**7192** in Plaissetty Fabric.

When ordering please state make of Burner.

All genuine Mantles bear the Registered Trade Mark "AUR" and are BRITISH MADE in the London Factory of the Welsbach Light Co., Ltd., where only the finest materials are used.

The LIGHTHOUSE SYSTEMS of the UNITED KINGDOM are MAINTAINED WITH WELSBACH MANTLES.

WELSBACH

SCALE : Actual Size.

BRITISH "AUR" MADE

Gas Mantles for Self-Intensifying Lamps and No. 7 Kern Burner.

BRITISH "AUR" MADE

W**7140**

MANTLE FOR WELSBACH

SELF-INTENSIFYING LAMPS.

150 C.P.

Of Specially Strong Texture.

Proved by experience to be the most brilliant and durable obtainable.

W**7140** in Double-Knitted Ramie.
W**7141** in "CX" Fabric.
W**7142** in Plaissetty Fabric.

Every Genuine Mantle bears the Registered Trade Mark "AUR."

W**7143**

MANTLE FOR

WELSBACH

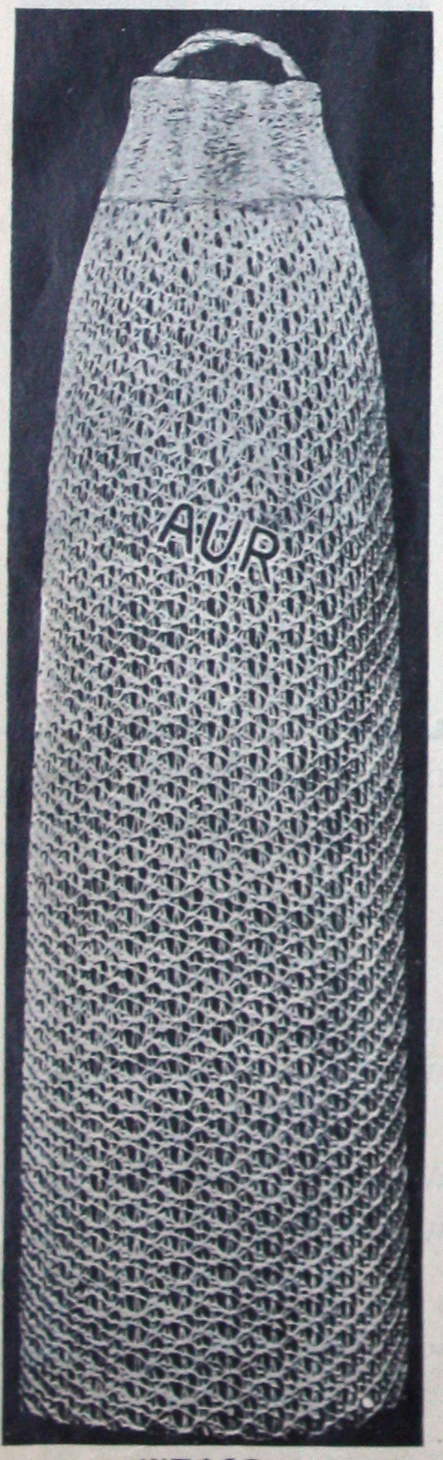
SELF-INTENSIFYING LAMPS

300 C.P.

Of Specially Strong Texture.

W**7143** in Double-Knitted Ramie.
W**7144** in "CX" Fabric.
W**7145** in Plaissetty Fabric.

Every Genuine Mantle bears the Registered Trade Mark "AUR."



W**7149**

MANTLE FOR

No. 7 KERN BURNER.

Of Specially Strong Texture.

British made by British Labour in the London Factory of the Welsbach Light Co., Ltd., where only the finest Materials are used.

W**7149** in Double-Knitted Ramie.
W**7150** in "CX" Fabric.
W**7151** in Plaissetty Fabric.

The Lighthouse Systems of the United Kingdom are maintained with WELSBACH Mantles.

MANTLE FOR

WELSBACH

SELF-INTENSIFYING LAMPS.

---

600 C.P.

Of Specially Strong Texture.

W**7146** in Double-Knitted Ramie
W**7147** in "CX" Fabric.
W**7148** in Plaissetty Fabric.

Every Genuine Mantle bears the Registered Trade Mark "AUR."

W**7146**

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

BRITISH "AUR" MADE

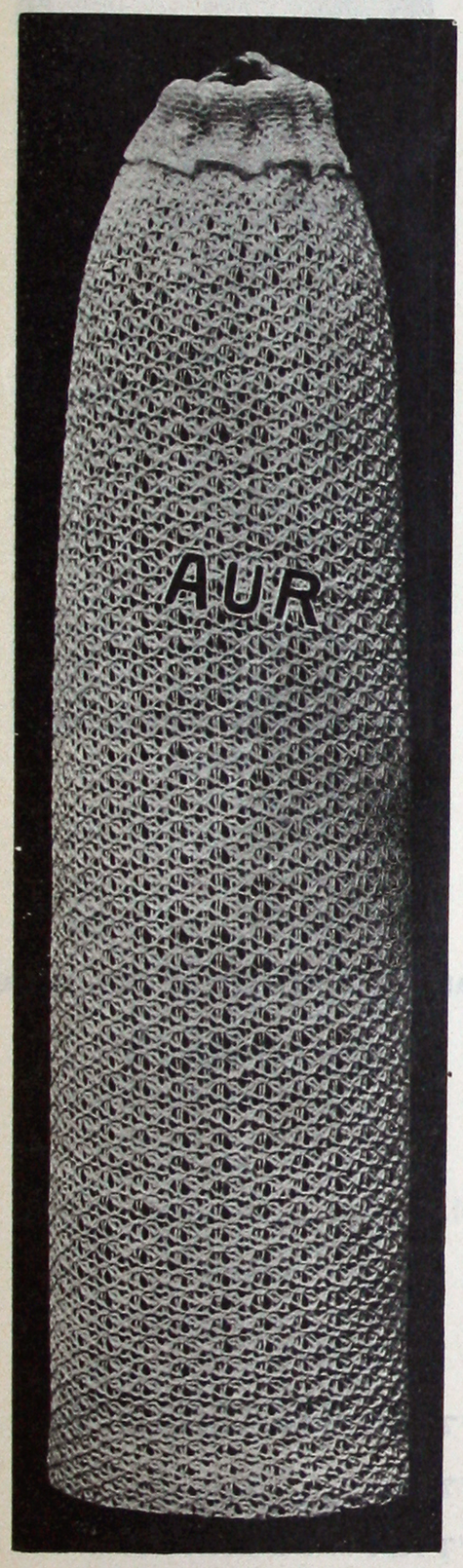
GAS MANTLES FOR LUCAS LIGHT.

BRITISH "AUR" MADE

Specially Strong Texture.

Proved by time and experience to be the most brilliant and durable obtainable.

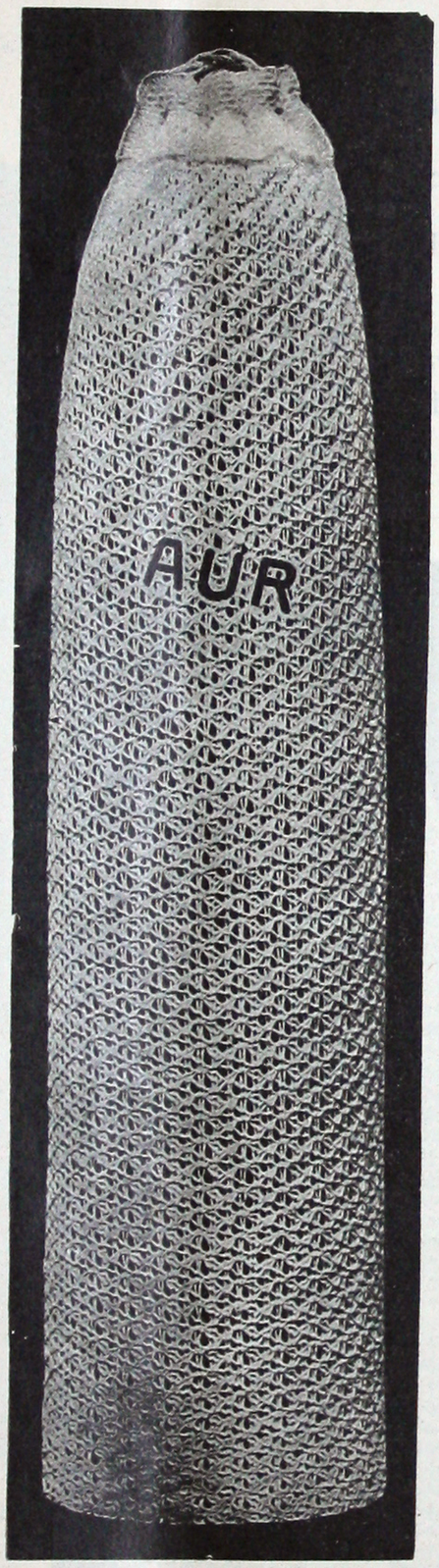
Every Genuine Mantle bears the Trade Mark **"AUR"** and is **British Made by British Labour.**



Mantle for Lucas S.I. Lamp.

200 c.p.

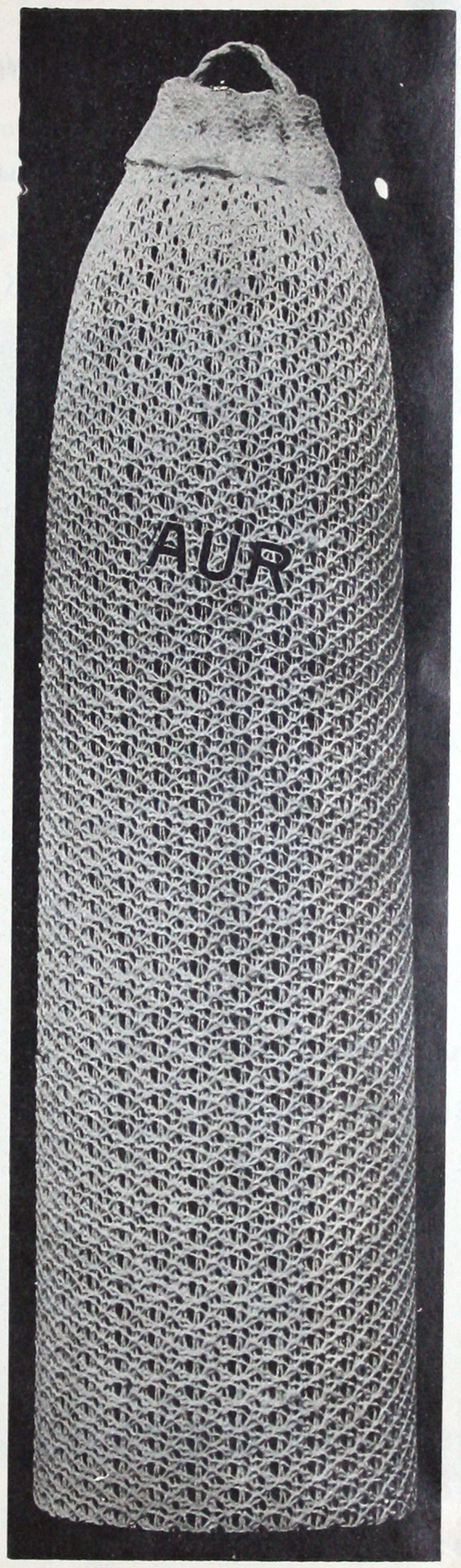
W**7155**, in Double-Knitted Ramie.
W**7156**, in "CX" Fabric.
W**7157**, in Plaissetty Fabric.



Mantle for Lucas S.I. Lamp.

400 c.p.

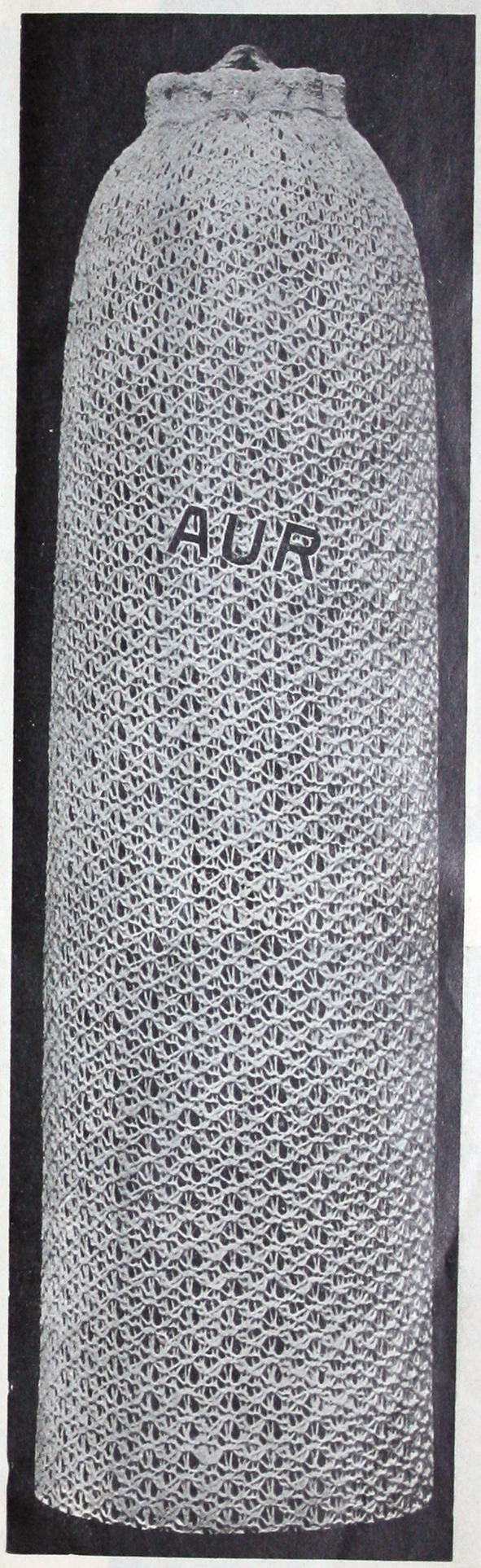
W**7158**, in Double-Knitted Ramie.
W**7159**, in "CX" Fabric.
W**7160**, in Plaissetty Fabric.



Mantle for Lucas S.I. Lamp.

700 c.p.

W**7161**, in Double-Knitted Ramie.
W**7162**, in "CX" Fabric.
W**7163**, in Plaissetty Fabric.



Mantle for Lucas S.I. Lamp.

1,000 c.p.

W**7164**, in Double-Knitted Ramie.
W**7165**, in "CX" Fabric.
W**7166**, in Plaissetty Fabric.

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

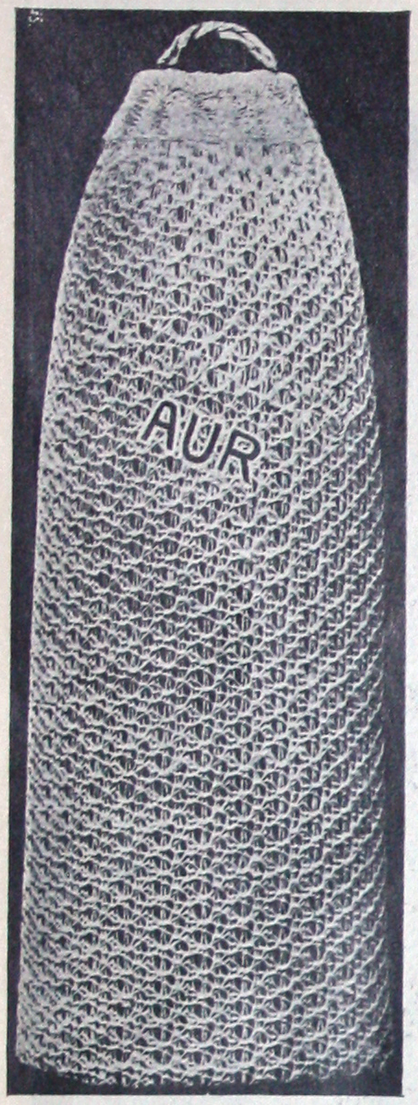
WELSBACH

Upright Mantles for High-Pressure Burners.

BRITISH "AUR" MADE

BRITISH "AUR" MADE

SCALE: Actual Size.



W**7152**

MANTLES FOR 300 CANDLE POWER HIGH-PRESSURE KERN BURNER.

MADE OF SPECIALLY STRONG TEXTURE.

RENOWNED FOR GREAT BRILLIANCY AND STRENGTH.

W**7152** in Double Knitted Ramie

W**7153** in "CX" Fabric

W**7154** in Plaissetty Fabric

Every genuine Mantle bears the Registered Trade Mark "AUR" and is British Made.

W**7154**

W**7179**

For Sugg High-Pressure Burner No. 10.

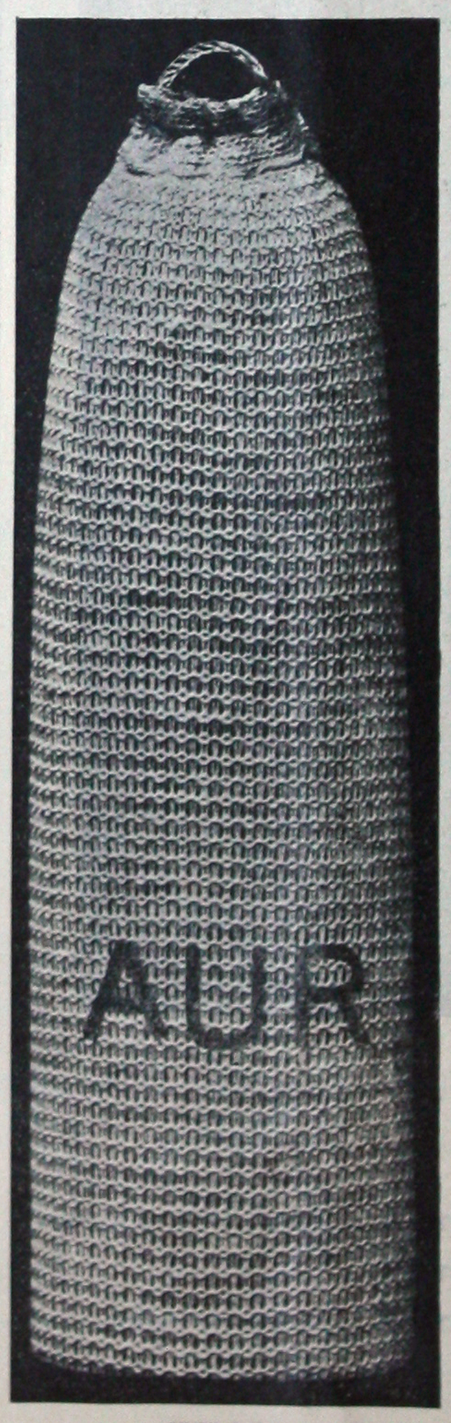
MADE OF SPECIALLY STRONG TEXTURE.

W**7179** in Double Knitted Ramie.

W**7180** in "CX" Fabric.

W**7181** in Plaissetty Fabric.

Made to order in Double Knitted Ramie, "CX" or Plaissetty Fabric as desired.



W**7182**

For Sugg High-Pressure Burner No. 20.

MADE OF SPECIALLY STRONG TEXTURE.

W**7182** in Double Knitted Ramie.

W**7183** in "CX" Fabric.

W**7184** in Plaissetty Fabric.

Made to order in Double Knitted Ramie, "CX" or Plaissetty Fabric as desired.

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

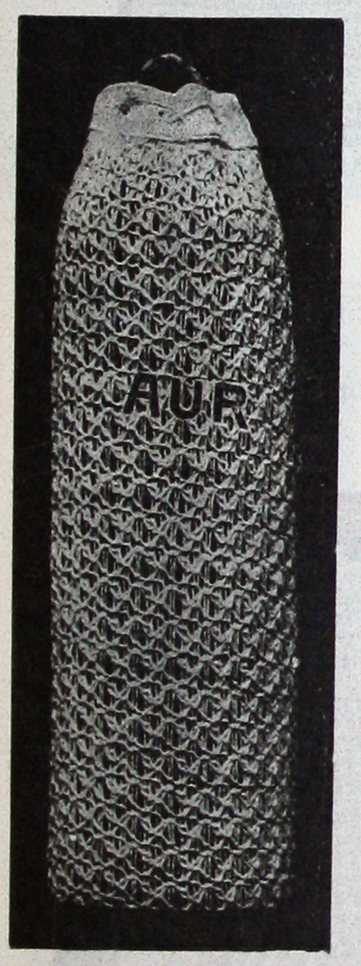
GAS MANTLES FOR KEITH HIGH-PRESSURE SYSTEM.

Unequalled for Strength, Brilliancy or Economy.

Made in Double Knitted Ramie, "CX" or Plaissetty Fabric, as desired.

These Mantles are entirely British Made in the London Factory of the Welsbach Light Co., Ltd., where only the finest materials are used.

Every Genuine Welsbach Mantle bears the Trade Mark **"AUR."**



H.P. Mantle for Keith

150 c.p.

W**7167** in Double Knitted Ramie

W**7168** in "CX" Fabric

W**7169** in Plaissetty Fabric

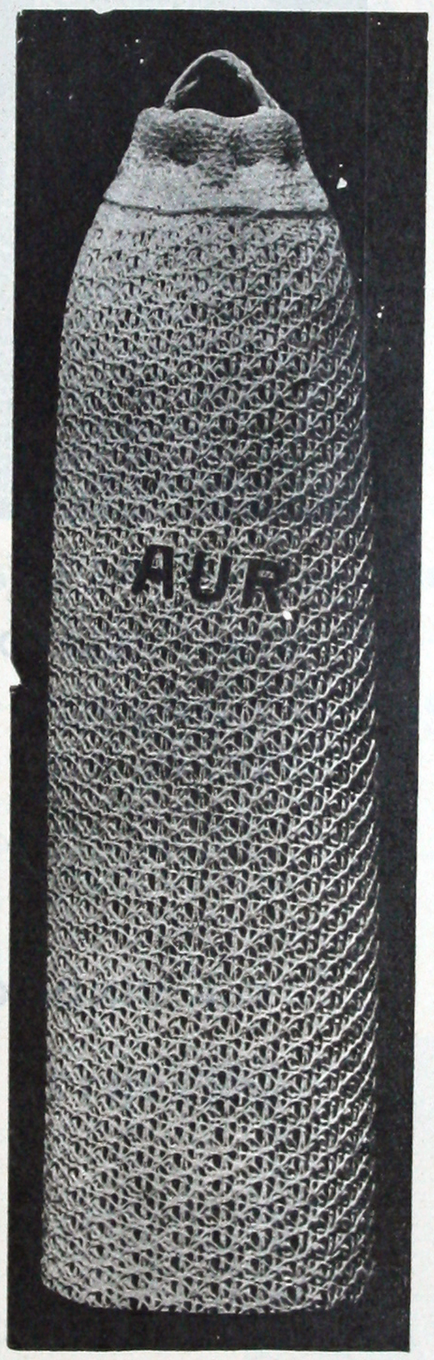
H.P. Mantle for Keith

300 c.p

W**7170** in Double Knitted Ramie

W**7171** in "CX" Fabric

W**7172** in Plaissetty Fabric



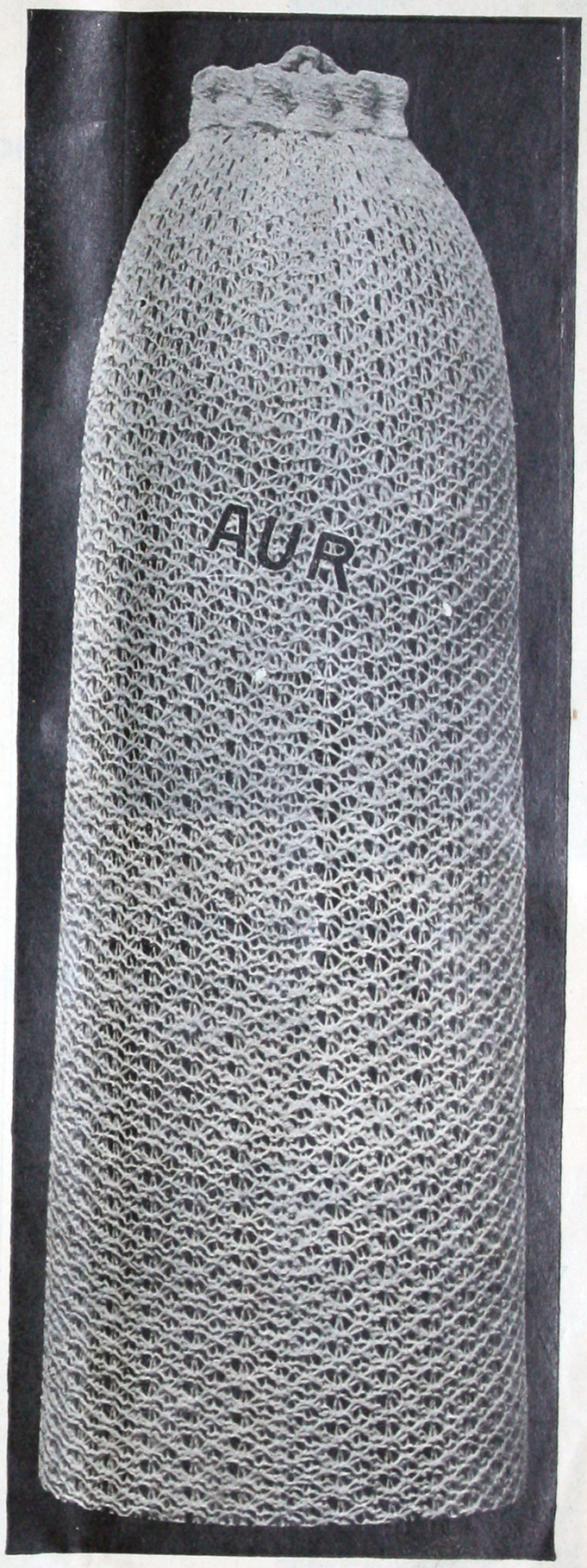
H.P. Mantle for Keith

600 c.p.

W**7173** in Double Knitted Ramie

W**7174** in "CX" Fabric

W**7175** in Plaissetty Fabric



H.P. Mantle for Keith

1,000 c.p.

W**7176** in Double Knitted Ramie

W**7177** in "CX" Fabric

W**7178** in Plaissetty Fabric

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

SCALE : Actual Size.

UPRIGHT MANTLES FOR PETROLEUM BURNERS.

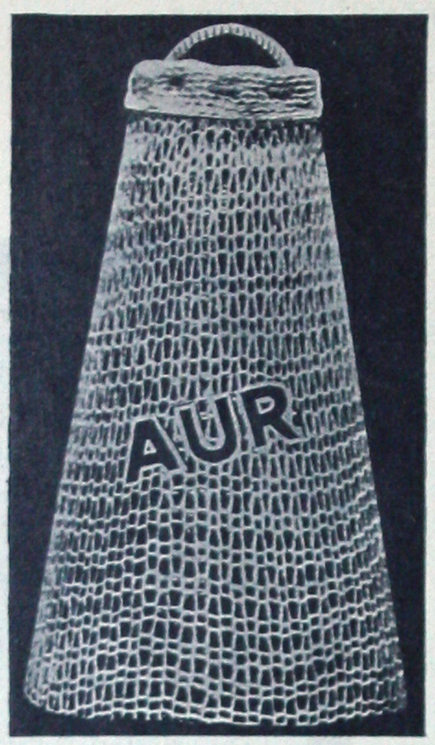
Every Genuine Mantle bears the Trade Mark **"AUR"** and is **British Made by British Labour.**

W**7211**

For WELSBACH.

W**7211,** for 1910 Pattern.

W**7212,** for 1907 Pattern.



W**7215**

For STELLUX.

W**7215,** for 50 c.p.

W**7220,** for 80 c.p.

W**7223**

For LUMINA.

Low Pressure.

W**7223,** for 200 c.p. Indoor.

High Pressure.

W**7246,** for 800 c.p. Outdoor.

For WASHINGTON.

W**7213** Size 100 × 31/32 m/m.

W**7214** „ 120 × 33 m/m.

For VINDEX.

W**7217**

For EUGEOS.

W**7221**

For FELLBOELIN.

W**7218**

For LUCISCA.

W**7216**

For URADIUM.

W**7219**

W**7222**

For LUMINETTE.

Mantles also supplied to order to fit any other make of Petroleum Burners.

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

Upright Mantles for HIGH PRESSURE Petroleum Lamps

Every genuine Mantle bears the Trade Mark **"AUR"** and is **British Made by British Labour.**

W**7224**

For

KITSON Lamps.

W**7224** 500 C.P.

W**7225** 1000 C.P.

For

LUX or ALADDIN Lamps.

W**7100** No. 1 Size 100 C.P.

W**7101** No 2 ,, 200 C.P.

W**7102** No. 3 ,, 700 C.P.

W**7226** No. 4 ,, 800 C.P.

Made to order in Double Knitted Ramie, CX, or Plaissetty Fabric as desired.

Special Prices quoted for quantities.

W**7101**

Mantles for Methylated Spirit Lamps.

W**7227**

For PHŒBUS or CORONAL

Burners.

W**7228**

For METHYLATED SPIRIT

Burners.

W**7229**

For ditto, Small

W**7230**

For LUCENT

Inverted Lamps.

W**7231**

For GRAETZIN TYPE

Methylated Spirit Lamps.

The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

SCALE : Actual Size

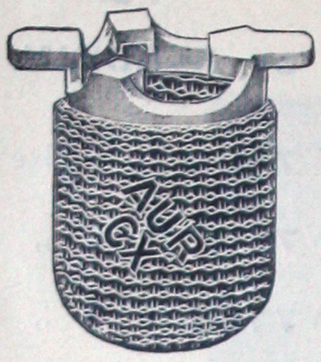
MANTLES FOR PETROL-AIR GAS, PETROLITE AND ACETYLENE.

Every Genuine Mantle bears the Trade Mark **"AUR"** and is **British made by British Labour.**

Inverted Mantles for Petrol-Air Gas.

W**7008** (Type L.)

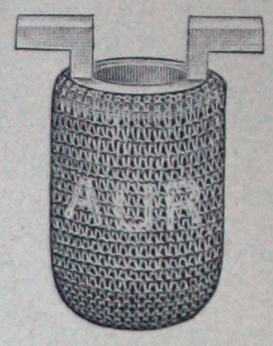
Finished.



W**7009** (Type M.) Finished.

W**7010** (Type L.)

Soft.

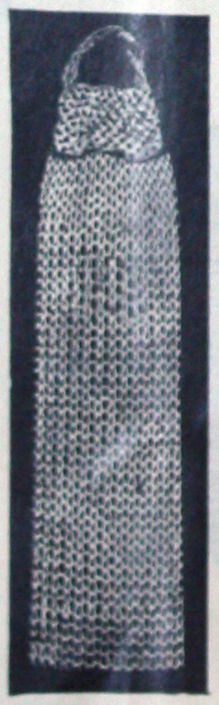


W**7239** Without inner lugs for Cox's Burner 40 C.P.

W**7241** Ditto, for Cox's Burner 100 C.P.

These Inverted Mantles are also supplied in Hill, Sunlight, Gladiator, and Tricot weavings (see pages 7, 9, 10 & 11).

Petrol-Air Gas.



W**7233** W**7232**

For upright Petrol-Air Gas.

W**7232** Lilliput Size
W**7233** Normal „
W**7234** Large „

Petrolite.

W**7235**

For Petrolite Lamp.

Acetylene.

W**7238** W**7236**

W**7236** Acetylene, 20 Litres
W**7237** „ 15 Litres
W**7238** „ 10 Litres

Cheaper quality prices upon application.

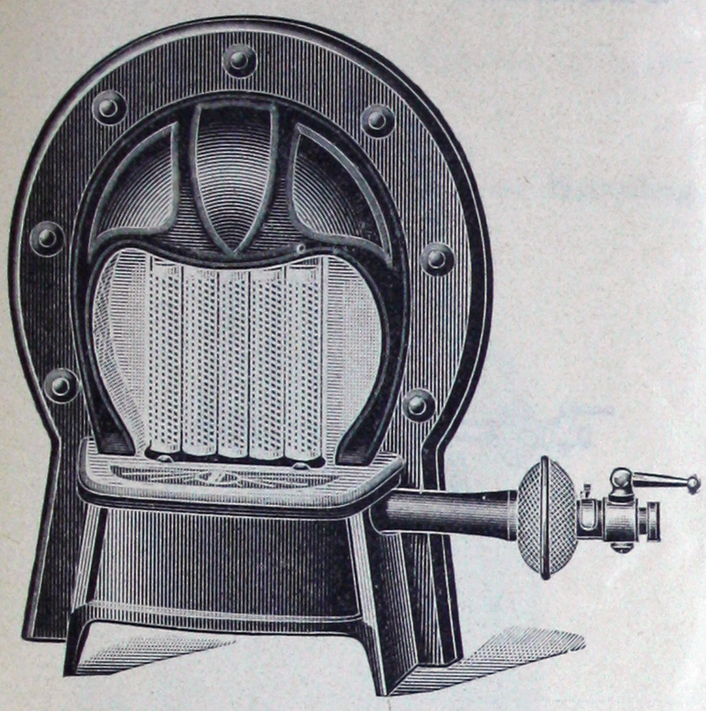
The Lighthouse Systems of the United Kingdom are maintained with Welsbach Mantles.

WELSBACH

WELSBACH-KERN GAS RADIATORS

(REGISTERED AND PATENTED).

ENTIRELY NEW MODELS.



Model **O.P.**

Registered No. 649860.

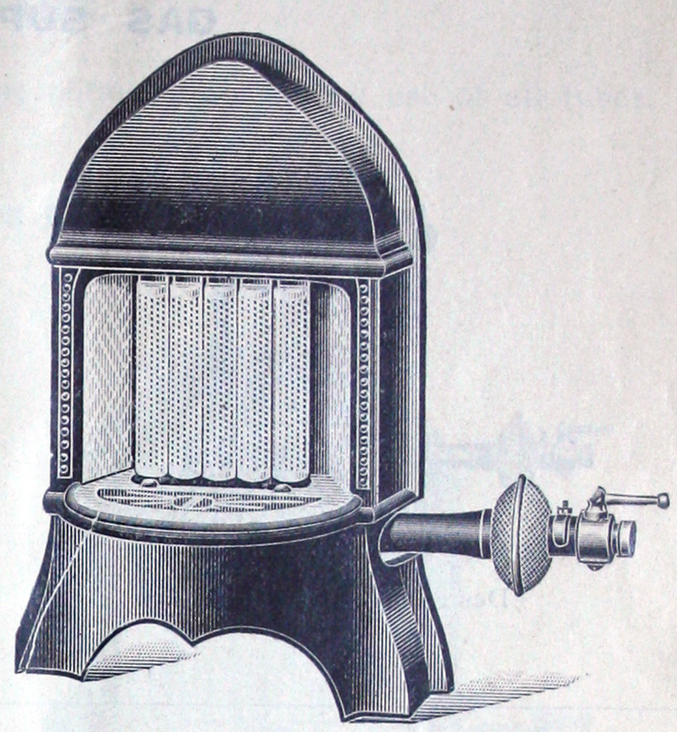
Pioneers of the Pillar Fuel type of Gas Fires.

Unequalled for

EFFICIENCY,

ECONOMY,

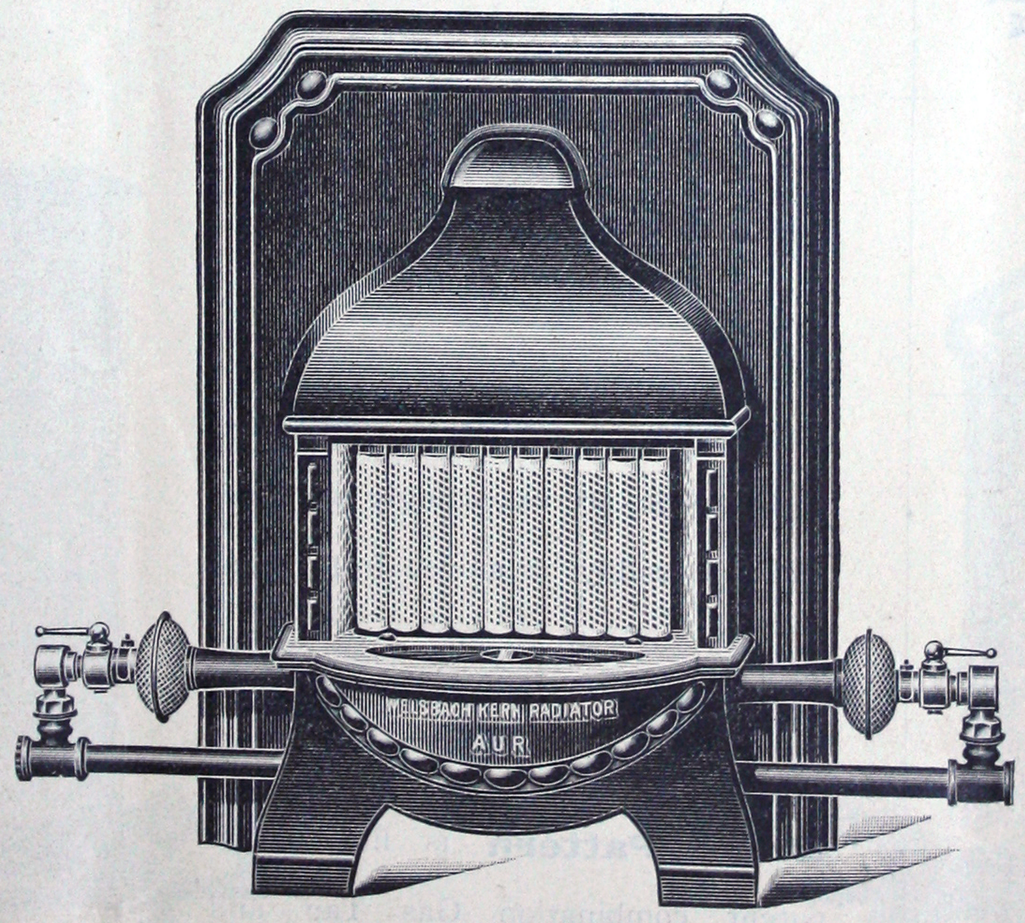
HYGIENE.



Model **O.N.**

Registered No. 650080.

BRITISH MADE THROUGHOUT—NOW AND ALWAYS.



Model **I.U.**

Registered No. 650835.

The "Lancet" says:—"It gives a cheerful, healthy, radiant heat, is remarkably economical, and as far as our experiments have gone, shows no deteriorating effect upon the air."

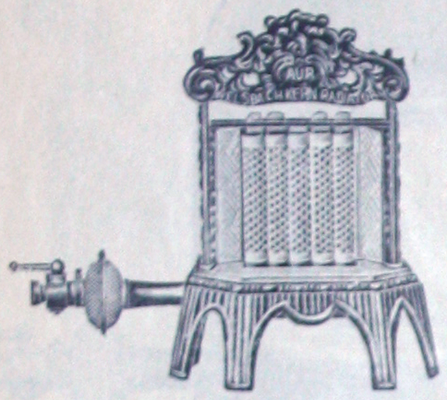
Write for copy of our Welsbach Radiator Catalogue (new issue), giving full particulars and prices of over 50 Models.

WELSBACH

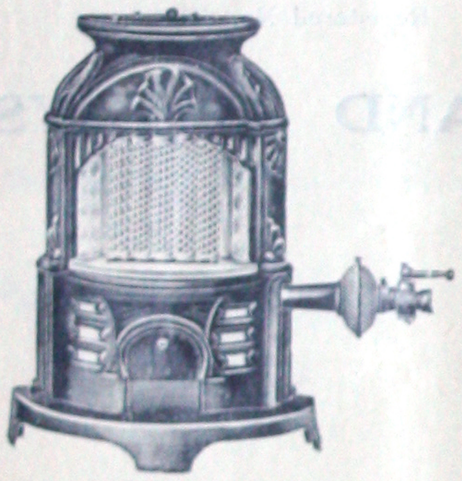
KERN GAS RADIATORS

BRITISH MADE.

GAS SUPPLY, RIGHT OR LEFT HAND, AS DESIRED.



Design **O.B.** (with Frieze).



Design **O.L.**
Registered No. 608470.

Design **O.J.** (with Boiling Ring).
Registered No. 486342.

SUITABLE FOR ROOMS 12 FEET SQUARE.

CONSUMPTION. 10 FEET PER HOUR.

COST OF BURNING
(Gas at 3/- per 1,000 cubic feet)
3 HOURS FOR 1d.

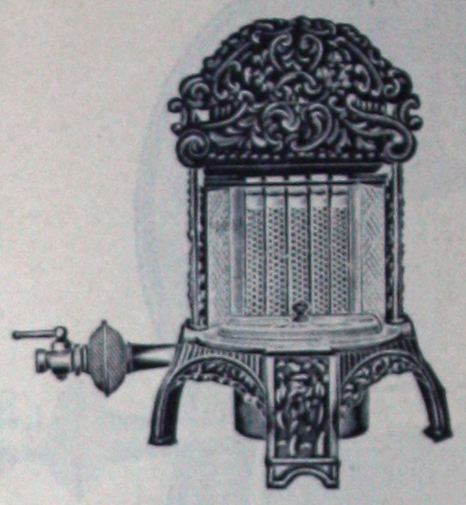
PERFECT COMBUSTION.

NO SMELL.

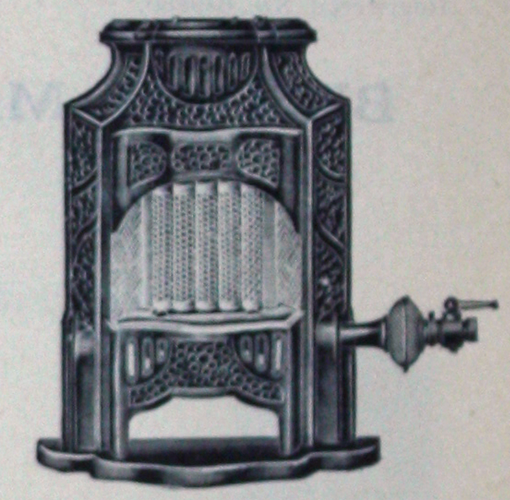
NO DIRT.

The series of Radiators, illustrated on this page, are exceedingly portable, and can readily be moved from room to room.

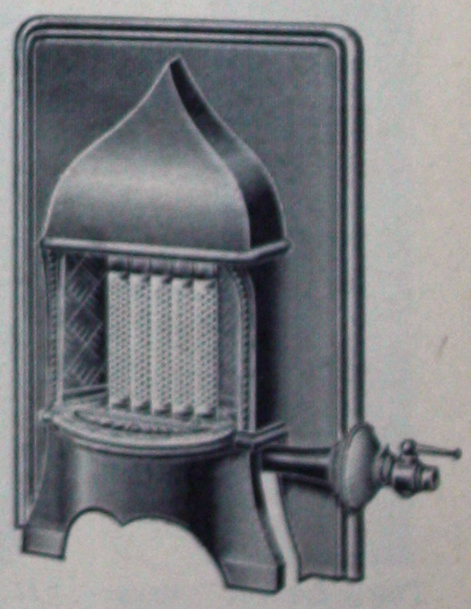
Every Pattern is fitted with patent combination Gas Tap and Adjustable Nipple, which can be instantly and correctly adjusted to give best results at any pressure.



Design **O.C.** (with Hood).



Design **O.K.**
Registered No. 605262.



Design **O.M.**
Registered No. 625214.

Fully Illustrated Catalogue of Welsbach-Kern Radiators, containing prices and a full report from *The Lancet* upon the efficiency and freedom from smell, post free upon application.

WELSBACH

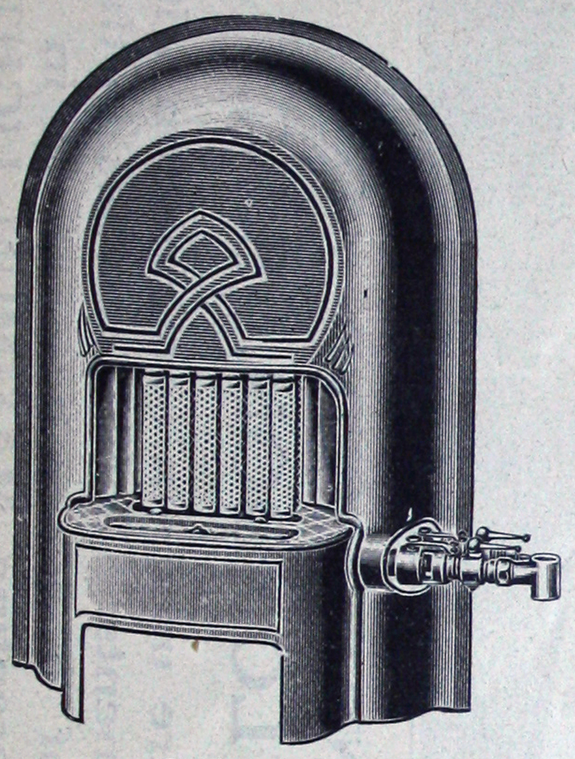
KERN GAS RADIATORS.

BRITISH MADE.

SUITABLE FOR ROOMS 20 FEET SQUARE.

Can be used with all tubes on or half only as required, enabling desired temperature to be obtained quickly by use of all tubes, which can then be maintained by half only.

Cost of Burning.—When full on, 3 hours for 2d.; half on, 3 hours for 1d.



Design **1.S.**

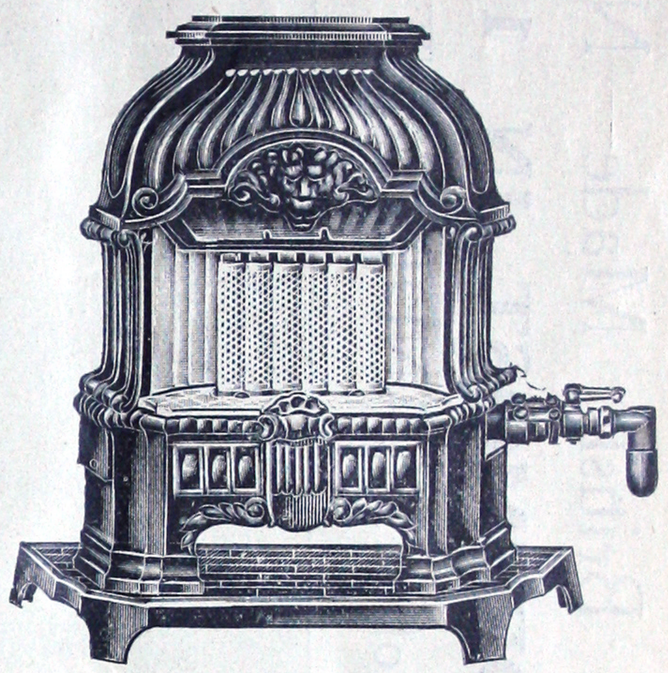
Registered No. 625213.

NEW MODELS,

1.S. and **1.Q.**

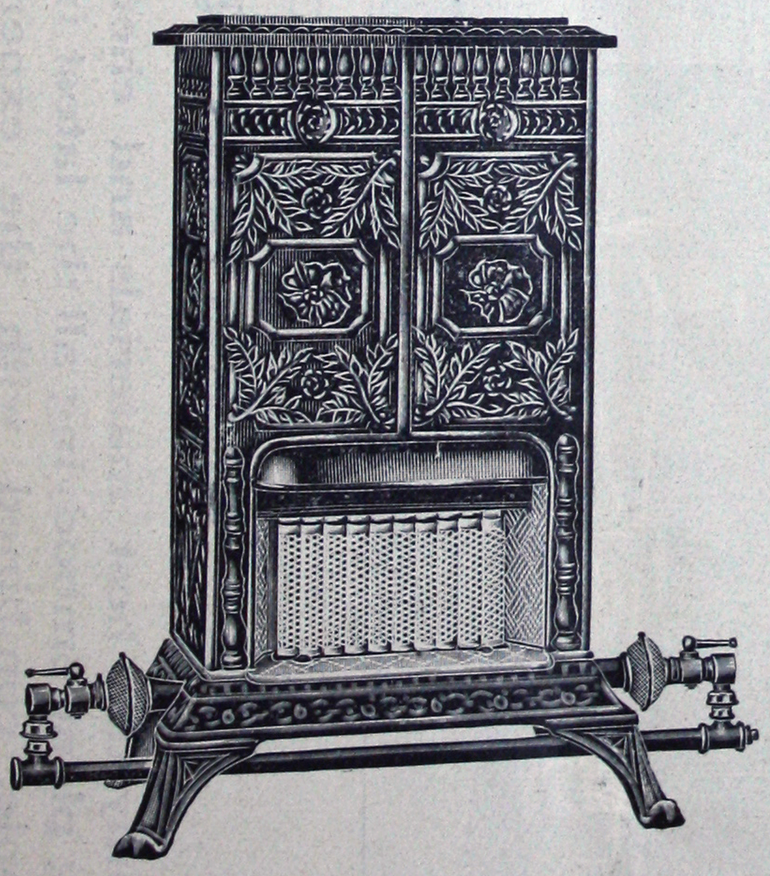
Embodying entirely new features, each having 11 tubes arranged in two rows:—6 in the front, and 5 at the back, in conjunction with new patent Twin Burner as illustrated, by means of which 6, 5, or 11 tubes can be used as desired.

An important improvement is the patented combination gas tap coupled with the Brass Air sleeve ensuring correct mixture of gas and air.



Design **1.Q.**

Registered No. 617719.



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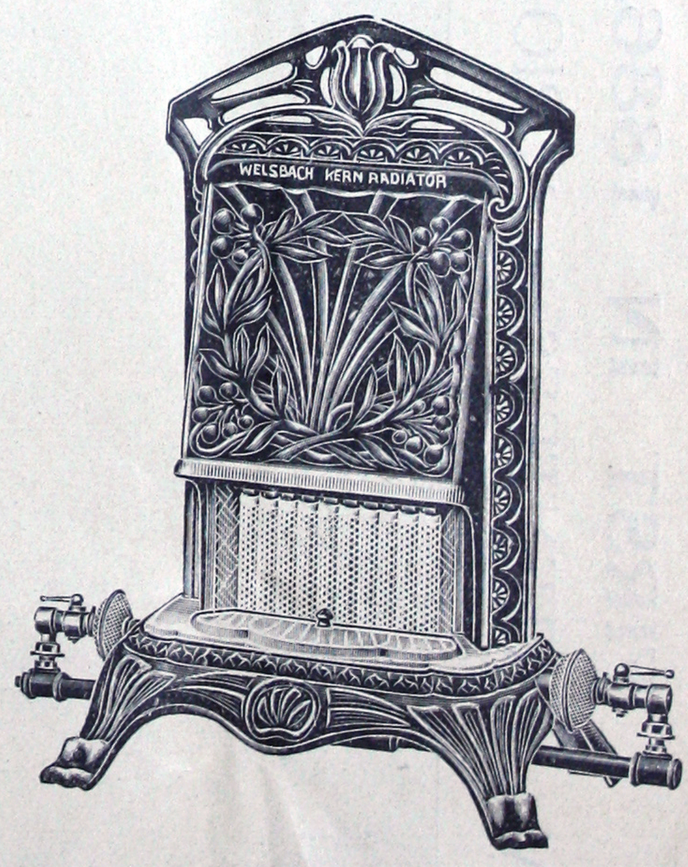

Design **1.H.**

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